

**CONTENT:**  
**APPENDIX 3**  
**APPENDIX 4**  
**APPENDIX 5 to 5.1-3**

**VOLUME 1 of 4**

**REPORT of INVESTIGATION**  
**SAGO MINE EXPLOSION**

**JANUARY 2, 2006**



**WEST VIRGINIA OFFICE of MINERS' HEALTH**  
**SAFETY AND TRAINING**  
**DECEMBER 11, 2006**  
**RON WOOTEN, DIRECTOR**

## **APPENDIX 3**

### **The Rescue**

- **Chronology Notes**
- **International Coal Group – Request Submitted During Rescue**
- **Drilling Activities**
- **Copy of Air Analysis**
- **Mine Rescue Teams**

## **Rescue Operations**

**Monday, January 2, 2006 through  
Wednesday January 4, 2006**

### **Notes from the State Inspectors**

DATE	TIME	
1-2-06	7:46 A. M.	Johnny Stemple left a message for John Collins of event.
1-2-06	7:50 A. M.	John Collins returned call to John Stemple.
1-2-06	7:55 A. M.	John Collins called Brian Mills.
1-2-06	8:02 AM	John Stemple notified Barbour County Mine Rescue by telephoning Jeff Rice.
1-2-06	8:15 A. M.	John Collins arrived at the Sago Mine. Mr. Collins discussed the situation with Charles Dunbar and Carl Crumrine. He placed guards at the mine entrance, obtained names of people still underground, assigned a foreman to check the return. He instructed operator to start calling mine rescue teams and obtain necessary equipment from other mines. The 1 <sup>st</sup> Left crew arrived outside. (Except Owen Jones) John Collins tried to call Kenney Tenney, MSHA.

Members of the 2<sup>nd</sup> Left crew still underground at this time were:

1. Marty Bennett
2. Jackie Weaver
3. Jesse Jones
4. Tom Anderson
5. Jim Bennett
6. George Hamner
7. R.L. McCloy
8. Terry Helms
9. Marshall Winans
10. Fred Ware
11. David Lewis
12. Jerry Groves
13. Jr. Toler (Martin)

Names of people attempting a rescue underground:

1. Dick Wilfong
2. Owen Jones
3. Vernon Hofer
4. James Schoonover
5. Jeff Toler

Names of 1<sup>st</sup> Left Crew outside of the mine:

1. Gary Rowan
2. Gary Carpenter
3. Roger Perry
4. Chris Tenney
5. Paul Avington
6. Joe Ryan
7. Alton Wamsley
8. Randy Helmrick
9. Ron Grogh
10. Eric Hess (Taped conversation with Eric when he came out.)
11. Denver Anderson
12. Hoy Keith

Other people who had come out of the mine:

1. Fred Jamison
2. Pat Boni
3. John Boni

1-2-06	8:21 A. M.	Barry Fletcher arrived at the mine..
	8:23 A.M.	Jeff Bennett arrived at the mine.
	8:30 A. M.	John Collins issued control order to Carl Crumrine.
	8:30 A. M.	John Collins discussed the 2 <sup>nd</sup> left pre-shift examination w/ Fred Jamison.
	8:30 A. M.	Operator said they had contacted J. Satterfield, MSHA
	8:30 A. M.	Operator said they had contacted Chris Hite, Barbour M/R.
	8:37 A. M.	Doug Conaway was briefed by cell phone.
	8:40 A. M.	1 <sup>st</sup> return readings: 47 PPM CO, 0.0 CH4, 20.4 O2, 93,204 Area 108, LFM 863, CFM 93,204 (Jeff Bennett's note)
	9:04 A.M.	Fan chart 1 1/2 inch water gauge, (Jeff Bennett's note)
	9:00 A.M.	Mark Wilfong arrived at the mine and was briefed by John Collins.
	9:00 A. M.	John Collins discussed with Brian Mills via cell phone.
	9:30 A.M.	Brian Mills arrived at the mine and was briefed by Mark Wilfong and John Collins.
	9:30 A. M.	Jeff Toler phoned from block 58 of 4 belt, told J. Collins the smoke was bad and that they were coming outside.
1-2-06	9:30 A.M.	Brian Mills contacted Tri State Mine Rescue Team.
	10:00A.M.	Mike Rutledge, Mine Rescue Team Coordinator was notified by Brian Mills.
	10:24 A.M.	Water Gauge at fan 3/4 inch on left side, 1 inch on right side.
	10:35 A. M.	Dick Wilfong told John Collins curtain had been installed over most of



the damaged stoppings from 32 to 57 block of 4 belt. Most of the stoppings had blown out toward the track. Wilfong said the attempt had been stopped at 57 block of 4 track intake escape way because of bad smoke. Wilfong also said that a return stopping was out at 33 block of 4 belt return side. Wilfong and Toler said it was clear at 42 block of 4 belt. The men said they could smell high CO. They had 3 self rescuers with them and (1) one detector. James Schoonover said he thought he had burned his detector up in the CO. These men, who are the (5) man crew that attempted a rescue, then walked out side via the intake escape way. A curtain was placed over a damaged stopping at the 2 right overcasts where air was short-circuiting as the men passed. Mr. Owen Jones said that the explosion occurred at 6:31 A.M. and lasted 3 to 4 seconds.

10:37 A.M. #1 Return readings at the outby end of canopy with Jeff Bennett's Explorer 4 505 PPM CO

1-2-06 — 10:45 A.M. Barbour County Mine Rescue Team arrived at the mine.

10:47 A.M. #1 return readings at the outby end of canopy with Jeff Bennett's Explorer 4 505 PPM CO 0.8 CH<sub>4</sub>, 19.4 O<sub>2</sub>

11:00 A.M. Doug Conaway arrived at the mine.

11:37 A. M. #1 Return: 472 PPM CO. MSHA asked everyone to evacuate the bathhouse because of the amount of CO being detected. The return is in direct line to the offices and bathhouse. Barbour County Mine Rescue Team notes.

1:00 P. M. Modified Control Order to allow Mine Rescue teams to enter return.

1:05 P.M. Readings taken by BCMR under O2 Clyde Tenney and James Paugh using ITX  
 #1 2000 PPM CO, 0.0 ch<sub>4</sub>, 20.9 O<sub>2</sub>  
 #2 2000 PPM CO, 0.0 ch<sub>4</sub>, 20.7 O<sub>2</sub>  
 #3 4400 PPM CO, 0.0 ch<sub>4</sub>, 20.7 O<sub>2</sub>  
 #4 1700 PPM CO, 0.0 ch<sub>4</sub>, 20.7 O<sub>2</sub>  
 \*MSHA Ron Tolonoski informed BCMR that detector peaked at 4400 PPM CO

1:15 P. M. #1 Return: 500 PPM CO, 1.1% CH<sub>4</sub>, 19.2 O<sub>2</sub>

~1:58 P.M. State Mine Rescue truck arrived at the mine.

2:03 P.M. Robinson Run Mine Rescue Team arrived at the mine.

~2:30 P.M. Tri State Mine Rescue arrived at the mine. Donnie Firm arrived at approx. 3:00 P.M.

~3:07 P.M. John Collins briefed mine rescue teams at the state rescue van.

5:15 P.M. Brian Mills, Mark Wilfong and John Collins in command center. Albert Lechiara keeping track of the mine rescue teams entering and exiting the mine.

## Notes from the Command Center

5:18 P.M. First Mine Rescue team entered the mine. (Robinson Run)

5:45 P. M. Gave permission to stay in track and move in by, check left and right.

5:50 P. M. Gave permission not to break track.

5:56 P. M. Man door 8 Block #3 Belt Leaving phone line at 8 Block

6:04 P. M. 8 Block 3 Belt #6 Intake-305 LFM, #7-254 LFM, #8-74LFM  
 Track 16 PPM CO 20.5 O2 CH4 0.0 Belt - 14 PPM CO 21% O2  
 0.1 CH4 Return .3% CH4 565 PPM CO 20.6 O2  
 Told to hold at 9 Block of # 3 belt until next team arrives.  
 Track 16 PPM CO at #1 entry drift 1300 PPM CO

6:40 P. M. Briefed Robinson Run Mine Rescue Team

7:00 P. M. #2 Drive Robinson Run Team Water level 2 inches on bottom of  
 mandoor between belt and return 311 PPM CO .2 % CH4 20.3  
 O2

7:30 P. M. Gave permission to start pump at Return #1 tail.  
 2 blocks inby #2 track - 1400 PPM CO 20.6 O2 0.0 % CH4

7:45 P. M. Pump Switch - 0.0 % CH4 0 PPM CO 20.8 O2  
 Power Center Pump - 9 PPM CO .1% CH4 21 O2  
 Return - 20.5 O2 .3% CH4 602 PPM CO  
 5 feet through mandoor

8 Block Track - 21 O2 .1% CH4 7 PPM CO  
 Belt - 21 O2 0.0 CH4 0.0 PPM CO  
 Intake

8:15 P. M. Permission given to take two mantrips underground.

8:15 P. M. Team A @ 17 block of 3 belt.  
 Team B @ 9 block of 3 belt

8:20 P. M. Scoop batteries and man trip at 1 Right disconnected.  
 Block 17 of 3 Belt - 1 Rt.  
 Return 44 PPM CO 20.9 O2 .1% CH4  
 Belt 8 PPM CO 20.9 O2 .1% CH4  
 Track 4 PPM CO 20.4 O2 0.0% CH4 Track 175 LFM

8:27 P. M. B Team & A Team to stop  
 8:27 P. M. A Team at block 28 of 3 belt  
 8:28 P. M. Gave permission for A-Team to hold at 28 block. B-Team may advance to block 28 of 3-belt.

8:40 P. M. B-Team permission to advance to 28 block.  
 A-Team to 32 block.

8:50 P. M. A-Team to 32 block of 3-belt

9:05 P. M. Intake 21% O<sub>2</sub> 6 PPM CO 0.0 % CH<sub>4</sub>  
 Area 130 LFM 1135 = 147,550 CFM

Track 21% O<sub>2</sub> .1% CH<sub>4</sub> 3 PPM CO  
 Belt 20.6% O<sub>2</sub> 0.0 % CH<sub>4</sub> 7 PPM CO  
 Return 20.5% O<sub>2</sub> 0.0 % CH<sub>4</sub> 726 PPM CO

9:10 P. M. A-Team investigated the water.  
 Reading: Last Return 910 PPM CO .2% CH<sub>4</sub> CO is dropping

9:27 P. M. A-Team return – Block 32 at Trubie Run CO 770 PPM .5% CH<sub>4</sub>  
 20.5% O<sub>2</sub> # 2 entry same readings

Water appears to just come out by roof (normal)

#5 Intake Block 32 154,050 CFM 0.0 % CH<sub>4</sub> 21% O<sub>2</sub> 6 PPM CO  
 Track 33,320 CFM 3 PPM CO .1 % CH<sub>4</sub> 21% O<sub>2</sub>  
 Return #1 349x120=41,180 CFM  
 Belt – Air traveling outby CFM 23,160 7 PPM CO 0.0 % CH<sub>4</sub>  
 20.6 O<sub>2</sub>

#2 Return at block 32 of 3 belt 43,290 CFM  
 Permission given for B-Team to travel to Block 32 of 3 Belt.

10:20 P. M. 35 Block door open between track and belt. Both doors on wing walls closed.  
 Air track to return 21.0 .1% CH<sub>4</sub> 4 PPM 956 LFM 6"x6" hole  
 CFM 239

10:25 P. M. A-Team to advance to #3 tail 4-head  
 10:25 P. M. Permission to start the pump at (1) block of track entry after the rail is cut.

10:45 P. M. Track is cut at 1 ½ clock 110 V pump outby is running  
 #1 Belt has been cut at 1 Block

10:55 P. M. # 7 entry 3 Block 21.2 .1 % CH<sub>4</sub> 2 PPM 7x18=20,790 165 LFM

Intake #8 21. .1 % CH4 3 PPM 18x8 area 535 LFM  
77,004 CFM

Intake #6 21.3 .1 % CH4 3 PPM 77,040 CFM

B-Team move to 3 block of 4 belt

3 Block #9-8-7 on track not 8 – 7 – 6 No smoke soon

11:08 P. M. #1 CO 1000 PPM 20.1 O2 0.5% CH4 338 LFM x 140ft 2 =  
Flow out by

#2 CO 707 PPM 20.4 O2 0.2 % CH4 377 x 140 ft.2 =  
Flow out by

#3 CO 7 PPM 20.7 O2 0% CH4

#4 CO 7 PPM 20.7 O2 0.0 CH4 Movement outby

11:08 P. M. B- Team at 3 Block of 4 Belt

#5 7 PPM CO 20.7 O2 0% CH4 Movement outby

Track #6 7 PPM CO 20.7 O2 0% CH4 Movement  
169 x (18x8) =

11:21 P. M. A-Team to 8 block of 4 belt – Check overcast at 8 block  
B-Team holds at 3 block of 4 belt

11:50 P. M. A-Team 9 Block of 4 Belt #1 Return has light smoke 19.8 O2 .5% CH4  
71,000 PPM CO LFM 320 x 140 =  
#2 19.5 O2 .5 % CH4 71,000 PPM CO LFM 320 x 140  
#3&4 stopping off inby

Belt #5 21 O2 0.0 % CH4 4 PPM CO LFM 65 x 130  
10' x 2' hole in belt overcasts

Belt #6 Track 21 O2 .1 % CH4 4 PPM CO LFM 232 x 7 x 18

Belt #7 21.1 .1 % CH4 5 PPM CO LFM 490 x 18 x 6

Belt #8 stopping

Belt #9 21.2 O2 .1 % CH4 6 PPM CO LFM 330 x 7 x 18

## Tuesday, January 3, 2006

12:20 A. M. Re-Check

#1 Return CO >1000 Good O2 < CH4

#2 Return CO >1000 Good O2 < CH4

12:25 A. M. Robinson Run B-Team to advance. Barbour County on surface for back-up  
Changing out at 9 Block of 4 Belt

12:45 A. M. Robinson Run B-Team advances to 17 Block on 4 belt.  
Check curtain installed between track and belt

1:05 A. M. 13 Block to the Right 21.0 Clear Return 623 PPM CO .2 % CH4 20.7% O2

1:15 A. M. Intake – 7 Block 20.8 % O2 2 PPM CO 0.0 CH4  
Return – 570 PPM CO .2% CH4 20.7% O2

1:40 A. M. 27 Block Intake scoop w-battery disconnected. Roof bolting machine.  
Permission given to move back-up to 27 Block.

1:55 A. M. 32 Block Track 79 PPM CO of 4 Belt 20.9 O2 0.0 % CH4 Check curtain in 4  
2:05 A. M. Blocks from intake to track  
Check curtain 46 PPM 20.7 O2 0.0 CH4 100 PPM CO inby 32 block left  
Belt 64 PPM 20.7% O2 0.0 CH4  
Air movement at Block 32 is very slow.  
Going under O2 to check intake and return at 32 Block  
Belt Belt Entry

2:10 A. M. Crew reported seeing a red light approx. 44 >. Permission given to advance to  
see what it was. CO light

2:40 A. M. Gave command to come to the surface.  
Air readings at Block 32 of 4 Belt.  
Track – used smoke =  
Return stopping is out at 34 Block along the belt between #4 & 5 entry.

3:40 A. M. Gave permission to change batteries on surface mantrip.  
32 Block #3 Return 89 LFM 525 PPM CO #4 entry 133 LFM 130 Area  
Belt – Smoke tube  
Intake air at Block #32  
#7 195 x 7 x 18 area  
#8 199 x 6 x 18 area  
#9 Roof fall

4:00 A. M. CO monitor power is off.

5:10 A. M. Everyone is out of the mine and pit area.  
Blacksville – Working  
Loverage – Back-up  
Barbour County – Surface

5:35 A. M. Hole punched thru at 258ft depth cut through into mine.

5:39 A.M. 20.3% O2 .4 % CH4 CO > 1200 PPM  
CO > 1250 PPM  
CO > 1280 PPM

5:42-5:52 A.M. Quiet period – No response

5:52 A. M. Starting to pull drill steel out of hole.

6:12 A. M. All drill steel is out. Move drill to other #2 location. Going to pit to charge.  
Mantrips move motor etc. Cameras going in hole.

6:21 A. M. Teams to enter mine.

6:33 A. M. Camera is placed down the hole – Can see breaker and pull cord on miner cable

6:35 A. M. #2 Belt drive not transmitting

6:13 A. M. Plan #13 is signed.

6:49 A. M. Team loading to go into mine.

6:55 A. M. 37 Mantrip – Blacks ville in lead Left surface – A Team  
Loverage following B-Team Barbour Rescue Team on surface back-up

7:02 A. M. Second viewing of camera after cleaning lens  
Looks OK Had good picture Everything appears normal

6:50 A. M. Started hole #2  
 7:06 A. M. Hole down 20 ft.  
 7:06 A. M. @ 2 Head CO reading 0 PPM – not Transmitting  
 7:10 A. M. @ 3 Head CO reading 0 PPM – not Transmitting 2 Hole @ 50 ft  
 @ 4 Head CO reading 1 PPM – not transmitting  
 7:15 A. M. Teams traveling to 31 Block of 4 Belt  
 7:23 A. M. Pump 110V at 1 Block of 4 belt – Back on  
 7:30 A. M. 27 Block Teams hooking up phones – Unloading  
 Blacksville working Loveridge back-up  
 7:35 A. M. Motors hauling  
 7:45 A. M. Supplies loaded – parked underground with locomotive  
 7:40 A. M. #2 Bore Hole down 100 ft. – Needs to go 450 ft.  
 27 Block roadway Track in #6 Belt is #5 1,2,3,4 Return 7,8,9 Intake  
 7:59 A.M. 32 Block with robot 20.9% O2 27 PPM CO  
 8:00 A. M. Motor outside  
 8:04 A. M. Going to break rail at pit  
 8:04 A. M. #7 Entry 23,951 CFM 0.0 CH4 20.8 O2 0 CO  
 #8 Entry 21,428 CFM 0.0 CH4 20.8 O2 0 CO  
 #9 Entry 16,650 CFM 0.0 CH4 20.8 O2 0 CO  
 8:27 A. M. Hit water 2<sup>nd</sup> hole approx 80 ft. 396 ft deep in 2<sup>nd</sup> hole 1 Block inby overcast  
 3<sup>rd</sup> hole is 210 ft deep at 2<sup>nd</sup> left #5 entry Pulling out to ?  
 8:35 A. M. Stopping line 27-32 adjacent to belt up to 32 at door. At door at 32 20.7 O2  
 20 PPM CO 0.0 CH4 Going through door to get reading  
 #6 entry smoke tube CH4 0.0 O2 20.8 CO 0.0 Smoke tube at the top 27 seconds  
 middle 21 seconds, bottom 29 seconds, area 105 air going inby  
 #5 Entry CH4 0.0 O2 20.8 CO 0.0 Smoke tube top 25 seconds, middle 19 seconds,  
 bottom 39 seconds No area, air flow inby.  
 Stopping line 28 & 29 stoppings in tact 30 intact but being pushed out on bottom  
 between 4 & 5 on bottom 31 intact stopping 32 has door  
 Question red light on belt CO monitor Red light at 36 has been unhooked 1 ½ has  
 life of 4 hours  
 8:50 A. M. V2 out of commission at 33 Block Water hole bad tire  
 Getting air readings at 4, 3, 2, and 1  
 9:20 A. M. At 32 Block # 1 and 2 could not access – mud  
 #3 403 PPM CO 20.6 O2 0.0% CH4 @ 32 Block No movement  
 #4 203 PPM CO 20.6 O2 0.0% CH4 Inby – Outby  
 Stopping 2-3 blown out 40"x95" hole.  
 Teams advance from 27 to 32 Block.  
 9:38 A. M. Phone at 32 Block Moving bus up.  
 9:25 A. M. Air Reading: CO 0 20.8 O2 CH4 Velocity 794  
 9:40 A. M. Fresh air base moved up.  
 9:44 A. M. @32 Block Right at Track: 20.3 0.0 CH4 CO 12  
 Inby Track Entry: 21.0 O2 0.0 CH4 CO 22  
 Movement inby on both  
 9:46 A. M. Air coming thru crosscut No movement 6-7 crosscut Slight movement going inby

9:47 A. M. Command Center ask Loveridge to advance.  
 Blacksville Back-Up Bailey to go underground when briefed.  
 9:52 A. M. Update on robot: Problem with 4-Track Detector messed up.  
 10:02 A. M. 33 Block 40 PPM Stopping out between belt and return. Stopping between ????  
 10:03 A. M. 35 Block 49 PPM Stopping Intact  
 10:07 A. M. 36 Block Track 34 PPM 20.9 O2  
 36 Block Belt 63 PPM  
 Door from belt to return open 37 belt intact Slight air movement towards door.  
 10:11 A. M. Stopping line is between 4 & 5 entry Everything they are giving is between 4 & 5  
 Right beside belt.  
  
 10:12 A. M. 38 Block – All stoppings intact  
 9:55 A. M. #1 20.7 O2 0.2 CH4 322 PPM CO 90,057  
 #2 20.9 O2 0.0 CH4 0  
 10:14 A. M. 39 Block Track 32 PPM CO 0.0 CH4 20.9 O2  
 39 Block Belt 78 PPM 20.3 O2 0.0 CH4  
 39 stoppings intact  
 10:16 A. M. Bailey leaving surface on mantrip.  
 10:18 A. M. 40 Block Track 30 PPM CO 20.9 O2 0.0 CH4  
 40 Block belt 80 PPM CO  
 Stopping intact – doors intact - doors closed  
 10:24 A. M. 40 Block #4 entry 264 PPM CO Air moving outby  
 8 people under apparatus  
  
 10:25 A. M. Calling team asking what time they went under apparatus  
 Under 10:10 A. M. Low man at 2000 Roger Hedrick  
 10:28 A. M. 41 Block Track 20.7 O2 32 PPM CO 0.0 CH4  
 41 Block Belt 20.2 O2 70 PPM CO 0.0 CH4 Return Out  
 10:30 A. M. 42 Block Track- 20.7 27 PPM 0 CH4  
 Belt stopping out on Reeturn side – By Belt 20.2 60 PPM 0 CH4  
 10:32 A. M. Moving fresh air base up in track entry.  
 10:38 A. M. 32 hole dried out 160' now depth 396' drilling 100' hour Will call every ½ hr  
 20' ?? expected to drill into mine at 12:45 P. M.  
 10:40 A. M. 42 Block Fresh Air Base Man bus there  
 0.0 CH4 21 % O2 22 PPM  
 10:50 A. M. Teams switching out  
 10:51 A. M. Intake stopping out at 42 Block  
 10:53 A. M. @ 43 Wall Kennedy stopping - Belt to return blown out  
 Belt – 70 PPM  
 Return – 300 PPM Air moving outby in return  
 Track 20.7 27 PPM at 43 Block  
 10:59 A. M. 45 Wall belt and both stoppings blown out  
 55 PPM 20.3 )2  
 Track where arches are intake stopping blown toward track  
 20.5 22 PPM CO 0.0 CH4  
 11:01 A. M. 44 Block belt stopping blown out ways 70 PPM CO

11:02 A. M. 44 Block Both stopping out on belt 77 PPM CO 20.3 O2  
 Track / Intake stopping intact 20.5 O2 23 PPM CO 0.0 CH4  
 11:03 A. M. 45 Belt lines stoppings blown out Belt 55 PPM 20.5 O2  
 Track 22 PPM 20.5 O2 0.0 CH4  
 11:07 A. M. Stopping blown out intake to track air curtain over it  
 11:08 A. M. 46 Track to intake stopping out  
 Track 20.7 O2 25 PPM CO Belt 20.3 37 PPM CO 07. CH4  
 11:11 A. M. Stopping is intact  
 Stopping out for set over across #3 entry  
 11:13 A. M. 47 Block stopping return intact Track stopping out intake side  
 Track - 24 PPM CO 20.7 O2 0.0 CH4  
 Belt - 116 PPM 20.3 O2 0.0 CH4  
 Proceeding to 48 Block  
 11:17 A. M. @ 48 wall Return stopping out. Track intake stopping intact with door closed.  
 Track - 27 PPM 20.7 O2 0.0 CH4  
 Belt - 123 PPM 20.2 O2 0.0 CH4  
 11:19 A. M. Moving fresh air base to 42  
 Apparatus check Low man 1600 Hedrick  
 1-3-06 F. A. B. to #44 34 Stopping out. Inby is return air. 41 stopping.  
 48-34 built substantial. 34 ? belt + return  
 11:48 A. M. @34 wall stopping has 5 x 8 hole Door open on 36 Door open  
 11:52 A. M. 33 stopping needs replaced blown out Going to put up curtain Spray foam on edges  
 12:01 P. M. #2 hole 250' stop at 368 approx. 1 1/2 hours  
  
 12:15 P. M. Return stopping line repaired up to and including stopping #40  
 Was instructed to build 41, 42, 43, 44,  
 12:14 P. M. #2 B. H. @ 270' will stop at 369 / punch 410  
 12:30 P. M. @280'  
 12:39 P. M. 32 in track 31, 30, all in  
 12:46 P. M. 1 team toward 32 - See where air splits (change directions)  
 Stp. 32 half piece of curtain Open why team monitor flow.  
 Rt. Side find out between 42 & 32 Air Direction  
 12:53 P. M. 32 Wall - Air movement outby  
 12:57 P. M. Door inby #8 Block Inby # 12 Block  
 1:08 P. M. 44 Wall just have movement  
 1:09 P. M. Outby door closed, going to check inby door  
 1:09 P. M. @32 Wall 19,000 at  
 Going to ask team to hang curtain over belt at 43-44 to push air from belt to track  
 1:14 P. M. No movement on belt line at 44  
 1:16 P. M. Said some pressure on curtains  
 Both doors were closed and still are closed  
 1:18 P. M. 25 PPM CO 0.0 CH4 20.7 O2 belt  
 @ fresh air base 44 Block 20 PPM CO 0.0 CH4 20.8 O2 track  
 1:22 P. M. Need brattice - Spad gun, foam pack  
 Going to change teams  
 Bailey advance - Loveridge advance - Tristate going outside - Barbour back up on surface



1:25 P. M. Team to go to 48 Block Then crossover to belt  
Crossover belt go over to take left outby then right to common return Then back out  
To 48 Block Check stopping 46 & 47 Return stopping

1:53 P. M. #2 at 48 450 PPM CO  
Between 45-46 #3 heading (across entry) stopping out.  
#1 = 47-48 Stopping intact

1:56 P. M. (#1&2) 900 PPM CO 19.7 O2 0.4 CH4  
Movement – Moving outby  
Directions Stopping 46 & 46 ¾ are intact

2:05 P. M. Bailey Team block #48 track  
Instructed to check vent. 49-50-51  
Check O/C toward 1<sup>st</sup> Left Panel Check stopping return side of the belt #2 entry  
(Fresh air at 44 block)

2:15 P. M. Found mantrip at mouth of 1<sup>st</sup> Left  
9 dinner buckets 49-50 on mains track at 1<sup>st</sup> Left section Lights still on facing  
inby. Note: This is the day shift 1<sup>st</sup> Left mantrip. De-energized lights unplugged  
batteries.

2:20 P. M. 1<sup>st</sup> Left track intake stopping intact and overcasts  
Fresh air base 0.0 CH4 0 PPM CO at block 44 of 4 Belt

2:21 P. M. Directed to check 1<sup>st</sup> overcasts on 1<sup>st</sup> Left belt and next left stopping off 1<sup>st</sup> Left belt

2:25 P. M. #2 B. H. @ 360 Holding

2:28 P. M. Gary Hayhurst = Equip Check P. Vencicelli ???

2:30 P. M. Intake to 1 Lt. O/C wall is out – OK Belt line #3  
??? of Mains Approx ht. =

2:41 P. M. 49 Block to  
51 Block Mains O/C – OK Belt OC  
Oc 51 Mains Track is out.

2:42 P. M. #3 BH started drilling @ 2:35 P. M.  
Intake O/C of #3 Mains is blown out (Track)  
Belt is OK

2:45 P. M. #2 Entry Mains  
1 Lt. BH – 310 PPM 0.2% CH4 Movement Outby  
Between 4 & 5

2:56 P. M. Track 190 PPM CO 20.7 .00 Movement Outby  
Intake 335 PPM CO 20.5 .10 Inby Movement  
Oc 1 L. Belt 2 Sheets tin off Ok

3:10 P. M. Bailey working Loveridge back-up  
Low Man 1600 (inspector)  
Bailey ask to advance 51-52 stopping intake (intake) has door

3:10 P. M. #3 borehole down 60 feet  
300 PPM 20.7 0.1 CH4 Block 52-3  
Sparks Insp. Bailey Team #1 #2 #3 #4 #5  
1600-1900 at 53 Block # 1 entry  
Roof fall

3:32 P. M. Plan

3:37 P. M. Hole 3 120' – 190 stopping

?? on deck - Change out w/Loveridge – Bailey will become back-up  
 Tri-State surface back-up  
 3:50 P. M. 140 feet – going to stop at t-190'  
 3:55 P. M. Teams instructed to advance via intake from block 44 to 56  
 4:00 P. M. In intake at 43 Block Put gob in to ?? 440 ?  
 45 Clock 1 Block out  
 47, 48, 49, 50 Ok in # 9 entry  
 @50 Block 12 PPM 20.7 0.0 CH4 air going inby  
 # 9 entry readings  
 4:07 P. M. Stopping line Right side of track 44, 45, 46, 47 out  
 Have been blown out Repaired with curtain 50 Blown out has curtain  
 51 overcast to ??? 52 Ok 53 Ok 54 has curtain installed over doors 55 OK 56 Ok  
 57 OK 58 OK  
 4:10 P. M. Hole 3 at 170' will be 10' and hold  
 Be approx. 10 min. to hold  
 4:15 P. M. 50 blown – has curtain  
 51 overcast to be curtained  
 52 OK 53 OK 54 OK has curtain installed over door  
 55 OK 56 Door 57 Check curtain over 58 & 59 Blown out  
 4:19 P. M. Air Reading Between 56 & 57 Track  
 20 PPM CO 20.7 O2 0.0 CH4 Air coming outby  
 4:22 P. M. 12 PPM CO 20.9 0.0 Intake Air traveling inby  
 4:22 P. M. Moving fresh air base after moving curtains  
 4:24 P. M. Put curtains in track and belt at 44 & 43  
 Then move fresh air base to 56-57 in #7  
 4:44 P. M. Belt entry installing curtain between 43-44  
 5:01 P. M. Moving F. A. B. to 56  
 5:03 P. M. Enlow @ 44 Check curtain – Open door @ 43  
 Move phone line over to intake  
 Teams U/G: Loveridge, Bailey, Enlow to FAB B-Back-up L-Outside  
 E- Explore  
 5:08 P. M. Loveridge will be coming out  
 Enlow working – Bailey back-up  
 Curtains at 44 track & belt complete.  
 Will remove curtain at 43 block between track and intake.  
 New Fresh air base inby 56 block  
 5:20 P. M. 58 and 57 track entry – item 1  
 5:35 P. M. Loveridge outside  
 5:35 P. M. Enlow moving phone to 52 clock in intake  
 5:47 P. M. Set up at 55 phone  
 5:49 P. M. Fresh air base at 56 intake #7 entry  
 Both teams at 56 Block  
 Block 55 CO 6 PPM 19.8 0.0 CH4

Air moving inby  
 Enlow advance to #9 advance to seals  
 6:08 P. M. 1 crosscut outby #10 seal #9 inby hit high  
 CO – 113 PPM Placed enlow under O2 and continue  
 6:13 P. M. Low man MSHA Jan Lyle 2450  
 6:17 P. M. Seal #10 appears to be gone. Team reported they see where bottom seam has been  
 mined. 3944 spad #9 entry seal gone  
 6:22 P. M. Gave instruction to advance across seals – 344 PPM CO 1.2 CH4 20.4 O2  
 Moving to #8 entry #9 seal  
 Walkway across seal block 62  
  
 6:28 P. M. Seal #9 Entry #8 evidence of seal also back-up stopping out  
 PPM 532 CO 1.2 CH4 20.2 O2 force inby to outby  
 6:32 P. M. Seal #8 Entry #7 Seal gone  
 320 PPM CO .5 CH4 20.4 O2  
 Back up wall gone Force inby to outby  
  
 6:37 P. M. Seal #7 Entry #6 Out  
 Back up wall out  
 Evidence force came from inby  
 600 PPM CO 0.6 CH4 20.3 O2  
 6:39 P. M. Seal #6 Entry #5 Gone  
 Back up wall gone Force came inby  
 600 PPM CO .6 CH4 20.3 O2  
 6:40 P. M. Seal #5 Entry #4 Gone  
 Back up Wall gone Force came from inby  
 690 PPM CO 0.6 CH4 20.3 O2  
 6:42 P. M. Seal #4 Entry #3 Gone  
 Back up wall gone Direction inby to outby  
 650 PPM Co .7 CH4 20.2 O2  
 6:48 P. M. Seal #3 Entry #2 – Gone  
 Back up wall gone Direction 0  
 700 PPM CO .8 CH4 20.4 O2  
 6:48 P. M. Seal #2 Entry #2 Same as #3 Seal Gone  
 6:50 P. M. Seal #1 #1 Entry – Blown out  
 640 PPM CO 20.2 O2 .8 CH4 Force came from inby  
 Move to 2 Left track  
 7:00 P. M. Team at 2 Left track – instructed to travel outby to 2 Left switch  
 7:12 P. M. Examined back to item #1  
 Advance inby up #2 Left track. Overcast at 3 break is gone. Advance inby to  
 5 / 6 Block get air quality and direction.  
 7:27 P. M. No stoppings along track Right and Left / Gone  
 Between 5/6 Air inby movement  
 CO 306 PPM O2 20.8 .6 CH4  
 7:50 P. M. Mantrip at 10 Block – Mantrip is empty

Low man 1500

1840

412 PPM CO .2 CH4 19.7 O2 Inby air movement

**Tuesday (1-3-06)** Low man 1500

7:52 P. M. Request to advance (2) additional blocks

Gave permission to advance to 12 Block

8:00 P. M. 12 Block stopping out – both sides

Gave instruction to retreat via intake escape way – 2 members in track entry retreat at same time.

J. Hall 1260 / Full / 12 SCSR Open intake

8:10 P. M. 12 SCSR Opened at 12 Block in escapeway. Tracks show inby direction of travel

8:10 P. M. SCSR are in neutral entry at 11 Block Tracks outby to 10 wall Then back to intake

Gave permission to travel Cautioned to watch O2

8:20 P. M. Changing out low-man on team and state.

8:25 P. M. Traveling outby escapeway following footprints

Walking escapeway – Low air 1200

8:36 P. M. Get with Jan Lyle John Hall to walk primary from 50 to 56

8:42 P. M. Got guys to walk by back up walls to tie in with primary. When they went to 12 wall said there appears to be a Kennedy stopping. To be used as a barricade. Inby 12 Block

8:45 P. M. Enlow is going back to fresh air base. Bailey is going to explore. Tri-State is new back-up team. Tri-State A-Team is back-up team.

9:05 P. M. Fresh air base at block 57 ½.

9:06 P. M. Ask where Jan Lyle, John Hall they are back at fresh air base.

9:05 P. M. Low man on Bailey is 1900 speaker

9:06 P. M. Enlow to come out.

9:11 P. M. Chris Lilly ask permission to move Bailey com. line up.

9:20 P. M. Fresh Air Base Bailey wanting to go to man trip parked at 14 Block

Clear to go to 14 Block.

9:21 P. M. Bailey advancing Low man Tokyo 1900

9:24 P. M. Motorman going in with McElroy Team to unload motor. Then motorman bring motor out.

9:26 P. M. Fresh air base told to break track at 42 block

9:29 P. M. McElroy told to separate track at 43 block. McElroy team told to do this when they take supplies in.

9:32 P. M. McElroy holding until Enlow arrives on surface.

9:34 P. M. 362 PPP CO 20.7 O2 .2 CH4

At end of track which is 16 block

9:36 P. M. Team has been told to stop advancing is at 19 block.

9:39 P. M. Team has ask permission to advance.

CO 220 PPM 0% CH4 Just inby 19 block

9:42 P. M. Correction team is at 17 block Was told to return out belt

9:43 P. M. Bailey is returning down belt heading.

9:45 P. M. Bailey wants to know what to do.

9:46 P. M. Bailey returning to fresh air

9:52 P. M. Enlow out

9:54 P. M. McElroy ready to go 84 on surface

9:56 P. M. Overcast blown out at 4 wall.  
 10:01 P. M. Talking to Tokyo Low man 902 #  
 Asking for next low man and high man  
 High man 2110 #  
 10:17 P. M. Tri-State given direction to do exploring at 61 block.  
 10:25 P. M. 2 rolls of curtain / full / partial at fresh air base  
 #2 entry of 2 Left TriState from 57 break in return explore #1 and #2  
 Relay information as they progress – Relay information of quality and direction  
 10:37 P. M. Wall 56 Coming over TriState  
 10:38 P. M. Communication moving back to 56 FA  
 10:42 P. M. Air reading #7 #8 #9 entry  
 Bailey quality and quantity  
 Entry #7 movement 21.9 O2 12 PPM CO Block 56  
 10:44 P. M. Tri-State is going with 1 man short due to mechanical apparatus problem  
 #8 5616 0% CH4 12 PPM CO  
 Entry #4 wall out  
 20.9 O2 0 CH4 12 PPM CO #9 Entry 11,760 CFM  
 10:51 P. M. Motor coming back outside Supplies unloaded  
 10:55 P. M. Jim Kluk communication at FAB  
 Bailey 5 Tri-State 4 (1 disabled) McElroy 5  
 State 4 MSHA 2  
 10:56 P. M. Bailey Team and two low state employees  
 10:58 P. M. Tri-State back-up  
 McElroy working team – go up the track and go to the right at tail piece  
 towards sump to check for barricade.  
 11:08 P. M. Motor on surface checking on track repair  
 11:13 P. M. Ron Hickman 1720 low man McElroy – MSHA  
 11:15 P. M. McElroy Block 58 starting up track entry  
 11:18 P. M. McElroy proceeding at Block #10 Proceeding to Block 15 Have the self-  
 contained CSE's with them.  
 11:30 P. M. Jeff Bennett with the Viper Team waiting to go inside.  
 11:33 P. M. Low Ron Hixon MSHA 1470 CO 296 PPM O2 20.6 0.4 CH4  
 11:40 P. M. Viper from under the hill on track man trip  
 11:41 P. M. McElroy at face in tract entry  
 11:45 P. M. All are OK - Behind the barricade 12 men  
 Viper Team on the way by track  
 11:45 P. M. Shoemaker / 84 Team briefed  
 Rides on surface (man trips being prepared)  
 87 man trip ready

### Wednesday January 4, 2006

12:00 A. M. Call out for first aide supplies / located track power center across from  
 tail piece  
 Over cast at 2 Left blown out on track

12:02 A. M. 0 CH4 20.7 O2 15 PPM CO at FAB  
 12:12 A. M. Motor / flat car take O2 and stretchers. Power on man trip at 1<sup>st</sup> Left  
 Back boards water and oxygen curtain  
 12:18 A. M. Rescue team at face are bringing 12 people – coming with them  
 12:20 A. M. Mark Wilfong in pit loading team member towards FAB  
 12:22 A. M. FAB – Team members going toward the face.  
 12:23 A. M. 11 items – Viper FAB Motor – went inside with medical personnel and mine rescue  
 members and all equipment stretchers/blankets/water/O2  
 12:23 A. M. 11 fatalities 1 survivor behind barricade  
 Precautions being given on man trip by Rick Marlow.  
 12:30 A. M. 1 man left at Block 56 Other members of mine rescue retreated / Members told to retreat  
 1:00 A. M. Ambulance left the property.  
 1:05 A. M. Reassessment of victims at the face area.  
 1:20 A. M. Four man trips 1 motor supply car outside  
 1:22 A. M. Everyone outside  
 1:25 A. M. 2 jeeps on charge 2 jeeps ready to go 1 motor and car ready. Via John Stemple  
 1:40 A. M. Robinson Run/Viper – 43 Block FAB  
 1:55 A. M. Viper Team has the 5 step slopes ???  
 Motorman, switch thrower and another man trip has bags & telephone. Also have 12  
 backboards.  
 2:05 A. M. Viper, Robinson are in the mine. Shoemaker getting ready to go in the mine.  
 84 and followed the motor and car.  
 2:25 A. M. Motor & supply car is going in mine with 11 back board straps tape and other materials.  
 No state person are with the teams in the mine.  
 2:35 A. M. Randall McCloy is the survivor.  
 2:40 A. M. We are releasing Tri-State Team.  
 2:45 A. M. 56 Block hooking up telephone. Telephone is now operating Mike MSHA rep  
 2:40 A. M. ??? FAB 56 Block  
 2:45 A. M. Identified: Terry Helms – Victim found near 57 –58 on track  
 #4 Belt near 57-58 Block  
 2:45 A. M. Hall roads to be examined between track and belt on 2 Left section by advancing team  
 (Viper)  
 3:00 A. M. Viper Team water 2 breaks out by the section  
 3:05 A. M. 27 Block of 4 belt is a scoop – Deenergized  
 3:10 A. M. Shoemaker and 84 are at the fresh air base 56 Block  
 3:12 A. M. Viper Team 220 PPM CO in by the man trip  
 3:25 A. M. Robinson Run Greg is advancing down the track to the section 2 Left  
 3:35 A. M. A man from Robinson Run Team is sick and is back at fresh air base 56 Block  
 The command center requested an up date from the Viper team. 84 will advance to Viper  
 Dropping a man off every block to establish communications.  
 4:35 A. M. Contact has been made and everything is OK  
 4:55 A. M. Moving the telephone to 58 Block  
 5:00 A. M. They have two victims loaded in the scoop and are traveling outby and they are carrying  
 one of them. Crosscut inby the belt tail 2 Left section – 1 victim  
 5:05 A. M. 2 scoops are being used on the section. 2 victims in one.  
 5:20 A. M. The Robinson Run Team is low on oxygen and are coming out. Holding Robinson

Run at 50 Block.

5:30 A. M. Enlow -5 man team ready to go into mine waiting for rides

5:35 A. M. 11 at fresh air base 11 back-up Preparing to go back toward the victims.

5:40 A. M. Vehicle at 43 block to be brought outside to get Enlow Team.

5:42 A. M. Robinson Run crew reentered the face area to recover another victim.

6:20 A. M. Motor crew is out and Enlow Team went in.

6:35 A. M. The Enlow Team are at the fresh air base at 58 Block

6:43 A. M. The scoop is on its way to the face.

6:45 A. M. Viper Team is coming outside.

7:05 A. M. Scoop is loaded now with all the victims (11) and are traveling off the 2 Left section.

7:15 A. M. Disconnected the telephone on the section.

7:40 A. M. Transferred some victims to track man trip - Will probably make two trips

7:50 A. M. Viper Team outside: Debriefing established comm. 2 Left section at 45 PPM. We put on apparatus explored some, energized the mantrip at 9 Block. We drove up to supply cars, walked to the check curtain found the victims. Our EMTS checked each man. No life signs. We painted and marked each victims area, notes in some of the lunch boxes, got a scoop out of water hole, we brought one victim on a stretcher, we started bringing 1 victim out. The body at 58 Block is in the track entry. The victim looked like he got the full force of the explosion, two hard hats were outby the victim (Pete Briast team captain Viper ICG) 3 men were sitting on dinner boxes. The rescuers were there and had been used.

8:00 A. M. Two motors & two flats, three people going to 43 Block Also, three buses coming to 58.

8:10 A. M. Five buses in from out by at 58 Block with 5 victims.

8:12 A. M. Loading victims in three man buses, the track has been repaired at 43 Block of 4 track.

8:25 A. M. motor crew arriving at 43 Block

8:35 A. M. 4 victims on man trip, getting the rest off scoop and putting them on mantrip at 58 Block

8:50 A. M. 7 victims on two victims coming to 43

9:10 A. M. All victims loaded in man trips. 6 man trips are leaving 58 scoops are unplugged and telephone removed, traveling to 43

9:20 A. M. 2 motors and 2 flat cars at 43 and 6 man trips coming out

9:55 A. M. Teams and victims are out of mine and are being transported from man trips to ambulance

10:00 A. M. It is believed that all persons are out of the mine.

10:30 A. M. The last man trip is unloaded.

## Appendix

Listed below are the request submitted by Anker West Virginia Mining Company, Inc. during the mine rescue operations. Copy of each attached.

January 2, 2006	Request #1	Plan to restore power at #2 dewatering pump.
January 2, 2006	Request #2	Plan to monitor mine gases at pit mouth.
January 2, 2006	Request #3	Plan for initial entering of mine by mine rescue teams.
January 2, 2006	Request #4	Plan for initial entering of the mine.
January 2, 2006	Request #5	Plan for initial entering of mine by mine rescue teams.
January 2, 2006	Request #6	Plan for initial entering of the mine.
January 2, 2006	Request #7	Plan for initial entering of the mine.
January 2, 2006	Request #8	Plan for initial entering of mine by mine rescue teams.
January 2, 2006	Request #9	Plan to restore power at #2 dewatering pump.
January 2, 2006	Request #10	Plan to take mantrips inside and move supplies.
January 2, 2006	Request #11	Plan for evaluation of the 1 <sup>st</sup> Left entrances.
January 3, 2006	Request #12	Request to de-energize CO monitor system, energize charger, repair rail at one block, retrieve motor, load robot, deliver brattice supplies, two mine rescue teams to 31 block of 4 belt and use robot to explore.
January 3, 2006	Request #13	Request to de-energize CO monitor system, energize charger, repair rail at one block, retrieve motor, load robot, deliver brattice supplies, two mine rescue teams to 31 block of 4 belt and use robot to explore followed by mine rescue team.
January 3, 2006	Request 14	Plan to advance teams in 1 <sup>st</sup> Left and then to 2 <sup>nd</sup> Left and Mains.



Request #1  
Jb

International Coal Group Inc  
Sago Mine  
Rt. 9 Box 507  
Buckhannon, WV 26201  
Phone 304-473-1676  
MSHA I.D. 46-08791 WV-MHST I.D. U2016-98B

.January 2, 2006

Plan to Restore Power to dewatering pump that is located at #2 dewatering pump so as not to loose the return airway opening.

Steps to be taken:

1. Power up 150 KV a at 23 block
2. Belt Box #2 Drive Belt Power Center
3. Energize 58 hp pump #2 dewatering pump

Safety provisions:

1. In place ventilation controls exist to eight block on 4 belt
2. Certified mine foreman and electrician will only initiate
  - A. CH<sub>4</sub> less than 1%
  - B. CO less than 50 ppm
  - C. O<sub>2</sub> greater than 19.5%
3. Personswill have S.C.S. R.s and detectors and will test prior to energizing the above listed equipment.

Sign Off

WV-MHST \_\_\_\_\_ January 2, 2006

MSHA \_\_\_\_\_ January 2, 2006

Company *ICG* \_\_\_\_\_ January 2, 2006

Request # 2

International Coal Group Inc  
Sago Mine  
Rt. 9 Box 507  
Buckhannon, WV 26201  
Phone 304-473-1676  
MSHA I.D. 46-08791 WV-MHST I.D. U2016-98B

January 2, 2006

Plan to Monitor mine gases at pit mouth

Two mine rescue personnel under apparatus will be permitted to approach the mine entrances to monitor the gases exiting the mine and report immediately to MSHA, WV-MHST, and ICG officials. Once the samples are taken the two individuals will exit the pit area to a safe location.

While the individuals are in the pit area under apparatus, two backup mine rescue personnel with apparatus ready to don will be on standby at the edge of the pit in the event of emergency situation will arise with the individuals in the pit area

1300

WV-MSHT

*Brian M. B.*

MSHA

*James Sattufield*

ICG Inc.

*[Signature]*

#3

International Coal Group Inc

Sago Mine

Rt. 9 Box 507

Buckhannon, WV 26201

Phone 304-473-1676

MSHA I.D. 46-08791 WV-MHST I.D. U2016-98B

January 2, 2006

Plan for initial entering of the mine by mine rescue teams

1. Air readings will be taken at each portal prior to entering the mine and then every 15 minutes until continuous monitoring can be established.  
Air readings attached.
2. Robinson Run "Team A" will enter the mine exploring the first 1,000 feet
3. Robinson Run "Team B" will be on standby as backup support for the team in the mine

Sign Off

WV-MHST

January 2, 2006

MSHA

January 2, 2006

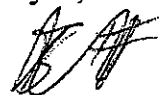
Company

January 2, 2006

4:15pm  
2-06

International Coal Group Inc  
Sago Mine  
Rt. 9 Box 507  
Buckhannon, WV 26201  
Phone 304-473-1676  
MSHA I.D. 46-08791 WV-MHST I.D. U2016-98B

January 2, 2006

#4 

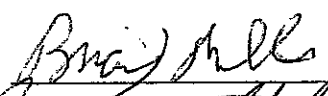
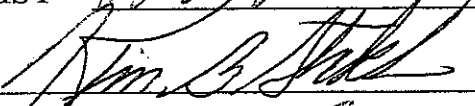
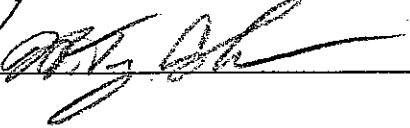
Plan for initial entering of the mine by mine rescue teams

1. Air readings will be taken at each portal prior to entering the mine and then every 15 minutes until continuous monitoring can be established.  
Air readings attached.

#1	219,840 cfm
#2	30,912 cfm
#3	27,135 cfm
#4	13,632 cfm

2. Tri State "Team A" will enter the mine exploring the first 1,000 feet
3. Tri State "Team B" will be on standby as backup support for the team in the mine
4. Team will do initial exploration in the intake #5 entry
5. Every 500 feet the mine rescue team will cross 3 entries taking air readings
6. The rail and belt structure will be broken and separated one break in by the pit mouth

Sign Off

WV-MHST		January 2, 2006
MSHA		January 2, 2006
Company		January 2, 2006

International Coal Group Inc  
Sago Mine  
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Buckhannon, WV 26201  
Phone 304-473-1676  
MSHA I.D. 46-08791 WV-MHST I.D. U2016-98B

January 2, 2006

#4 3 #

Plan for initial entering of the mine by mine rescue teams

1. Air readings will be taken at each portal prior to entering the mine and then every 15 minutes until continuous monitoring can be established.  
Air readings attached.

#1	219,840 cfm
#2	30,912 cfm
#3	27,135 cfm
#4	13,632 cfm

2. Tri State "Team A" will enter the mine exploring the first 1,000 feet
3. Tri State "Team B" will be on standby as backup support for the team in the mine
4. Team will do initial exploration in the intake #5 entry
5. Every 500 feet the mine rescue team will cross 3 entries taking air readings.
6. The rail and belt structure will be broken and separated one break in by the pit mouth

Sign Off

WV-MHST

*Bruce M. Hall*

January 2, 2006

MSHA

*John B. Smith*

January 2, 2006

Company

*John B. Smith*

January 2, 2006

International Coal Group Inc  
Sago Mine  
Rt. 9 Box 507  
Buckhannon, WV 26201  
Phone 304-473-1676  
MSHA I.D. 46-08791 WV-MHST I.D. U2016-98B

January 2, 2006  
#6

5:12 pm

Plan for initial entering of the mine by mine rescue teams

1. Air readings will be taken at each portal prior to entering the mine and then every 15 minutes until continuous monitoring can be established.  
Air readings attached.

#1	219,840 cfm
#2	30,912 cfm
#3	27,135 cfm
#4	13,632 cfm

2. Consol "Team A" will enter the mine exploring the first 1,000 feet
3. Consol "Team B" will be on standby as backup support for the team in the mine
4. Team will do initial exploration in the intake #5 entry
5. Every 500 feet the mine rescue team will cross 3 entries taking air readings
6. The rail and belt structure will be broken and separated one break in by the pit mouth

Sign Off

WV-MHST Gina Mills January 2, 2006

MSHA Walter D. Perry January 2, 2006

Company International Coal Group Inc January 2, 2006

International Coal Group Inc  
Sago Mine  
Rt. 9 Box 507  
Buckhannon, WV 26201  
Phone 304-473-1676  
MSHA I.D. 46-08791 WV-MHST I.D. U2016-98B

January 2, 2006  
#7

Plan for initial entering of the mine by mine rescue teams

1. Air readings will be taken at each portal prior to entering the mine and then every 15 minutes until continuous monitoring can be established.  
Air readings attached.

#1	219,840 cfm
#2	30,912 cfm
#3	27,135 cfm
#4	13,632 cfm

2. Consol "Team A" will enter the mine exploring the first 1,000 feet
3. Consol "Team B" will be on standby as backup support for the team in the mine
4. Team will do initial exploration in the intake #5 entry
5. Every 500 feet the mine rescue team will cross 3 entries taking air readings
6. The belt structure will be broken and separated one break in by the pit mouth

Sign Off

WV-MHST

January 2, 2006

MSHA

January 2, 2006

Company

January 2, 2006

International Coal Group Inc  
Sago Mine  
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Buckhannon, WV 26201  
Phone 304-473-1676  
MSHA I.D. 46-08791 WV-MHST I.D. U2016-98B

January 2, 2006  
#8

7:04 PM

Plan for initial entering of the mine by mine rescue teams

Air readings will be taken at each portal prior to entering the mine and then every 15 minutes until continuous monitoring can be established.

1. Robinson Run mine rescue team will travel underground to backup the Consol team which is currently underground. They shall travel the track entry and check the mine entries to the left of the track and follow the pump cable to check the shore line.
2. Loveridge Mine rescue team will be on standby on the surface as backup support for the team in the mine
3. Team will do initial exploration in the intake #5 entry
4. Every 500 feet the mine rescue team will cross 3 entries taking air readings
5. The belt structure will be broken and separated one break in by the pit mouth

Sign Off

WV-MHST \_\_\_\_\_ January 2, 2006

MSHA \_\_\_\_\_ January 2, 2006

Company \_\_\_\_\_ January 2, 2006



International Coal Group Inc  
Sago Mine  
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MSHA I.D. 46-08791 WV-MHST I.D. U2016-98B

#9

January 2, 2006

7:10 PM

Plan to Restore Power to dewatering pump that is located at #2 dewatering pump so as not to loose the return airway opening.

Steps to be taken:

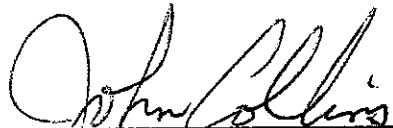
1. Disconnect high voltage line to #3 belt
2. Power up 150 KV a at 23 block
3. Belt Box #2 Drive Belt Power Center
4. Energize 58 hp pump #2 dewatering pump
5. Area will be monitored prior to and every 5 minutes thereafter for CO, O2, and Ch4 until the circuit is energized.

Safety provisions:

1. In place ventilation controls exist to eight block on 4 belt
2. Mine rescue team will only initiate
  - A. CH4 less than 1%
  - B. CO less than 2,000 ppm
  - C. O2 greater than 19.5%
3. Mine rescue team with detectors and will test prior to energizing the above listed equipment.

Sign Off

WV-MHST



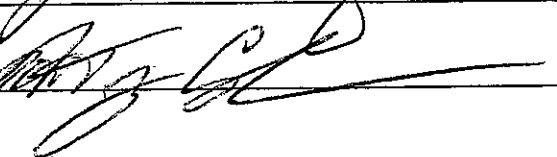
January 2, 2006

MSHA



January 2, 2006

Company



January 2, 2006

International Coal Group Inc  
Sago Mine  
Rt. 9 Box 507  
Buckhannon, WV 26201  
Phone 304-473-1676  
MSHA I.D. 46-08791 WV-MHST I.D. U2016-98B

#10


January 2, 2006

8:22 PM

1. Two mantrips, operated by two mine rescue personnel on each trip, will be taken from the surface pit area to 17 block on #3 Belt. One mantrip will brought back to the surface by exiting mine rescue team.
2. Permission is requested to move supplies from the supply yard to the pit area to allow ready access for the rescue effort

Sign Off

WV-MHST  January 2, 2006

MSHA  January 2, 2006

Company  January 2, 2006

International Coal Group Inc  
Sago Mine  
Rt. 9 Box 507  
Buckhannon, WV 26201  
Phone 304-473-1676  
MSHA I.D. 46-08791 WV-MHST I.D. U2016-98B

#11

January 2, 2006

11:00 PM

Upon reaching the mouth of the 1 Left panel, the mine rescue teams will advance a minimum of six blocks inby the #1 entry of the mains and evaluate each entry at this location for air flow, direction, O2, Ch4, and CO. The intake and return stopping lines will be visually examined for integrity as they enter the panel.

If the constituents are within the standards established by MSHA, WV-MHST and ICG, Inc. officials, the teams will return to the mains and advance into the 2<sup>nd</sup> Left panel.

Sign Off

WV-MHST \_\_\_\_\_ January 2, 2006

MSHA \_\_\_\_\_ January 2, 2006

Company  January 2, 2006

11:08 pm 1-2-06  
RJS

International Coal Group Inc  
Sago Mine  
Rt. 9 Box 507  
Buckhannon, WV 26201  
Phone 304-473-1676  
MSHA I.D. 46-08791 WV-MHST I.D. U2016-98B

#12

January 3, 2006

4:55 AM

1. De-energize CO monitor system including battery backup
2. Energize charger at mouth surface of mine
3. Repair rail at one block
4. Request to retrieve motor from #1 motor barn near #1 belt tail along #1 track
5. Load robot and operator and transport to 31 block on #4 belt. The operator will always be in fresh air.

Note: Rail locomotive will be operated by qualified person and accompanied by a mine rescue person. Upon delivery of the robot and supplies to the area, the motorman and mine rescue team member will retreat to the surface.

6. Deliver brattice supplies at designated area (31 block #4 belt)
7. Two mine rescue teams mobilize to 31 block #4 belt
8. Use robot to explore starting at 31 block #4 belt

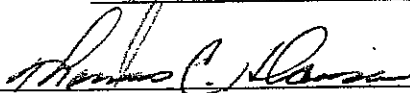
Sign Off

WV-MHST



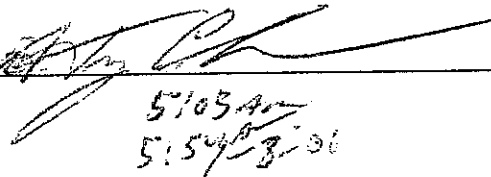
January 2, 2006

MSHA



January 2, 2006

Company

  
5:03 AM  
5:54 PM 3-06

January 2, 2006

International Coal Group Inc  
Sago Mine  
Rt. 9 Box 507  
Buckhannon, WV 26201  
Phone 304-473-1676  
MSHA I.D. 46-08791 WV-MHST I.D. U2016-98B

#13

January 3, 2006

6:02 AM

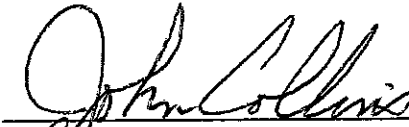
1. De-energize CO monitor system including battery backup
2. Energize charger at mouth surface of mine
3. Repair rail at one block
4. Request to retrieve motor from #1 motor barn near #1 belt tail along #1 track
5. Load robot and operator and transport to 31 block on #4 belt. The operator will always be in fresh air.

Note: Rail locomotive will be operated by qualified person and accompanied by a mine rescue person. Upon delivery of the robot and supplies to the area, the motorman and mine rescue team member will retreat to the surface.

6. Deliver brattice supplies at designated area (31 block #4 belt)
7. Two mine rescue teams mobilize to 31 block #4 belt
8. Use robot to explore starting at 31 block #4 belt
9. Robot will proceed inby followed by M. R. Team advancing and exploring behind the robot.

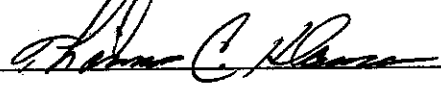
Sign Off

WV-MHST



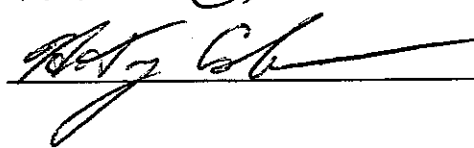
January 3, 2006

MSHA



January 3, 2006

Company



January 3, 2006

international Coal Group Inc.

Sago Mine  
Rt. 9 Box 507  
Buckhannon, WV 26201  
Phone 304-473-1676  
MSHA I.D. # 46-08791 WV-MHS&T I.D. U2016-98B

Plan Number # 14  
January, 3, 2006  
Time 10:19 am

The following proposed mine rescue and recovery plan is pursuant to the effort for the Sago Mine.

The following provisions will be in place;

1. The mine rescue teams will proceed to Block #48 of 1<sup>st</sup>. Left and examine the common return inby for six breaks.
2. The overcast at Break 49 and 51 of the first left section will be examined.
3. The teams will then precede inby to the 2<sup>nd</sup> Left Section .Via the Intake Entries 7, 8 & 9.
4. The teams will then examine the seals at 62 block Mains (Old Two Left Mains).
5. Exploration will then proceed to 60 Block advancing intake air into the two left parallel entry.
6. Using the above mentioned scenario exploration will then proceed in the 2 left section.

C.O. Ritz

State C.A. Phillips

MSHA James Sutterfield 1/13/06

7. 1<sup>st</sup> Left 6-Block <sup>ATC</sup> CAP  
8. 2<sup>nd</sup> Left 55-56-Block <sup>ATC</sup> CAP

## **Drilling Activities**

The drilling planning and operations and operations of surface drills to assist in the rescue response began at approximately 12:15 p.m. on January 2, 2006. Director of the Office of Miners' Health Safety and Training (OMHS&T) Doug Conaway instructed John Meadows, OMHS&T Surface Inspector, to contact Mike Ross, President of Mike Ross Inc a drilling company, to come to the mine office for a meeting regarding the use of surface drills to assist in the rescue response.

At approximately 1:15 p.m. on January 2, 2006, Mr. Ross arrived at the mine site with Jerry Willett, S.W. Jack Drilling and met with Mr. Conaway and Joe Myers, Chief Engineer for Anker WV Mining Co. Inc.

Mr. Meadows was asked to contact Jacob Huffman who lived by the mine and had a handheld mapping-grade GPS unit. Mr. Meadows also contacted three drilling companies; Hyres Drilling of Rock Cave, WV, United Drilling of Jane Lew, WV, and Phoenix Drilling. Brad Liggett and Don Chidester of Phoenix had the capability of drilling a 36 inch hole.

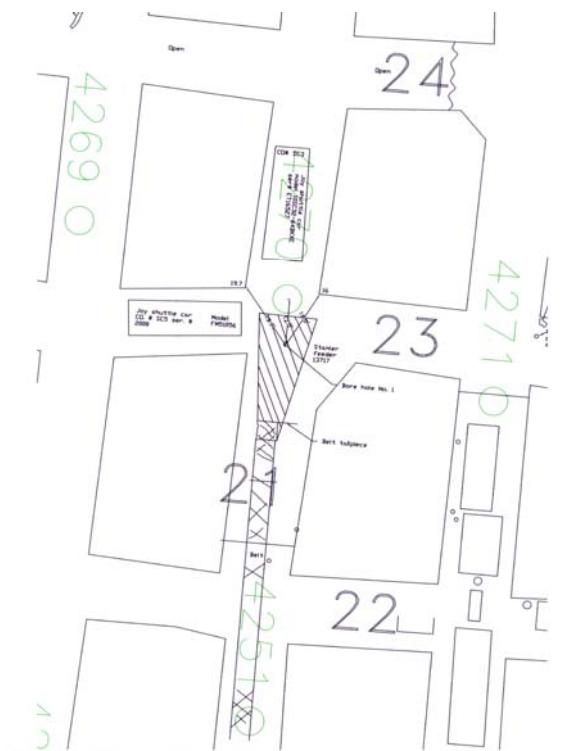
Mr. Ross, Mr. Huffman, Mr. Willett and Mr. Meadows left the mine to determine the location of the first borehole. The target for this borehole was the feeder for the number six belt on the second-left section. The land directly above that target is located on Tallmanscille Road. There they met landowner George Roessing who gave permission to construct roads and to drill. They were joined at the location by Kermit Melvin, ICG employee who also had a mapping-grade GPS unit. Both units were used to increase accuracy.

Mapping-grade GPS units have an accuracy of three to nine feet under the best conditions. The location directly above the target turned out to the wooded steep hill side of narrow valley. Because GPS accuracy is limited by line of sight access to orbiting satellites the topography and the trees made it difficult to ensure the accuracy of the surface location. Because the target area was approximately 20 feet by 20 feet and error of more than 10 feet could result in the borehole missing and being useless. The group staked out a drilling pad area for the excavation team from S.W. Jack Drilling that arrived to begin work and would wait for survey-grade GPS units to arrive to place the exact drill point.

Alpha Engineering from Beckley had been contacted to secure survey-grade GPS location. Gary Hartsog, President was out of town and was unable to contact any of his surveys who were also on vacation. Mr. Hartsog contacted Marshall Robinson at approximately 3:30 p.m. who had been the surveyor for the Sago mine until August of 2005 and was familiar with the mine. Mr. Robinson in turn contacted other West Virginia surveyors who mobilized to provide the needed service.

The group converged on the site from across the state bringing with them a collection of state-of-the-art survey-grade GPS equipment.

The drilling was stopped approximately 20 feet short of the 257 depth of the second-left roof at 5:00 a.m. on January 3, 2006 awaiting permission from the command center to punch through the roof. Permission was given at 5:07 a.m. and the roof was breached at 5:35 a.m.



**Figure 1:** Targeted point (feeder) and actual borehole location for first borehole



**Photo 1:** Sampling pipe through first borehole looking toward shuttle car across feeder in 23 crosscut



Immediately after penetration gas readings were taken showing 20.3 percent oxygen, 0.4 percent methane, 200 ppm carbon dioxide and 1280 ppm carbon monoxide.

The drill was turned off with the drill and drill steel in the mine. From 5:42 am until 5:52 a.m. silence was observed and the drill steel tapped with a hammer to signal. An ear was placed to the drill to listen for any return hits. There was none.

At 6:12 a.m. the drill steels had been removed and a camera was lowered into the borehole. The lenses were obstructed by mud and the camera was with drawn cleaned and re-lowered. The image seen on the surface monitor revealed the coal breaker and pull cord on the feeder and the miner cable hanging from the rib. A slight trace of smoke could be seen moving past the camera but otherwise there was no sign of damage. A one inch outside diameter pipe was installed to collect air samples and of the hole sealed.

Two Ingersol Ram 1170 air compressors provided by Waco Oil and Gas arrived and were parked near the second borehole.

During this time, site preparations for the second hole were underway. All gas lines that could be affected by the drilling were being identified and marked by Keyspan Production.

At 6:50 a.m. the drilling on the second bore hole began with the goal of entering the first-left section approximately 400 feet deep. United Drilling, Inc. using a 6 ½ inch drill bit was operating this rig. At 7:06 the second hole was within 20 feet of the roof and drilling was halted while mine rescue teams were working. This hole was completed on January 5, 2006 for monitoring the first-left section during mine recovery.

At approximately 11:00 a.m. on January 3, 2006 the site was located for the third borehole and excavation begun. Drilling began at 2:42 p.m. by the drilling team that completed the first borehole. The goal of the hole was to penetrate the outby end of the second-left section near four-block. The hole was stopped approximately 20 feet above the roof at 4:10 p.m. The hole was completed on January 5, 2006 for monitoring the area during mine recovery.

## **Copy of Air Analysis**

- 1. Bottle sample analysis (attachment)**
- 2. Jeff Bennett's notes (attachment)**

## **Names of Mine Rescue Teams (attachment)**

# BOTTLE SAMPLE ANALYSIS

File Name: Main Return.xls

Run Date: 1/12/2006 5:38 PM

Location: Portal #1 (Main Return) Sago Mine, Anker West Virginia Mining Company

Page 1

Anker West Virginia Mining Sago Mine 46-08791 Main Return Date and Time	GAS CONCENTRATIONS									
	H2 ppm	O2 %	N2 %	CH4 %	CO ppm	CO2 %	C2H2 ppm	C2H4 ppm	C2H6 ppm	Ar %
1/2/2006 8:40		20.40		0.00	47					
1/2/2006 9:10		20.30		0.00	23					
1/2/2006 9:10		20.60		0.00	50					
1/2/2006 10:37					505					
1/2/2006 10:47		19.40		0.80	505					
1/2/2006 10:47		19.80		0.80	500					
1/2/2006 11:02		19.00		1.00	472					
1/2/2006 11:02		19.40		1.10	500					
1/2/2006 11:23		19.30		0.80	472					
1/2/2006 11:23		19.70		0.90	500					
1/2/2006 11:37		19.50		0.70	472					
1/2/2006 11:37		19.70		0.80	500					
1/2/2006 12:17					2000 +					
1/2/2006 13:05		20.90		0.00	2000 +					
1/2/2006 13:25		20.60		0.00	1372					
1/2/2006 13:44		20.90		0.00	1860					
1/2/2006 14:01		19.70		0.60	2430					
1/2/2006 14:01		19.60		0.50	2700					
1/2/2006 14:26		19.70		0.60	1880					
1/2/2006 14:26		19.60		0.50	2280					
1/2/2006 14:45		19.26		0.29	2600	0.28			0	
1/2/2006 15:00		19.71		0.27	2570	0.27			0	
1/2/2006 15:08		19.50		0.50	1800					
1/2/2006 15:10		20.26		0.27	2340	0.29			0	
1/2/2006 15:30		19.68		0.25	2130	0.24			0	
1/2/2006 15:45		19.91		0.24	1970	0.23			0	
1/2/2006 15:50		19.90		0.40	1985					
1/2/2006 16:00		19.15		0.22	1870	0.23			0	
1/2/2006 16:00		20.20		0.40	2251					
1/2/2006 16:30		20.41		0.22	1750	0.22			0	
1/2/2006 17:15		19.84		0.22	1740	0.22			10	
1/2/2006 17:45		20.46		0.20	1510	0.20			10	
1/2/2006 17:55		20.43		0.19	1420	0.18			10	

# BOTTLE SAMPLE ANALYSIS

File Name: Main Return

Run Date: 1/6/2006 2:32 PM

Location: Portal #1 (Main Return) Sago Mine, Anker West Virginia Mining Company

Page 1

Anker West Virginia Mining Sago Mine 46-08791 Main Return Date and Time	GAS CONCENTRATIONS									
	H2	O2	N2	CH4	CO	CO2	C2H2	C2H4	C2H6	Ar
	ppm	%	%	%	ppm	%	ppm	ppm	ppm	%
1/2/2006 14:45		19.26		0.29	2600	0.28			0	
1/2/2006 15:00		19.71		0.27	2570	0.27			0	
1/2/2006 15:10		20.26		0.27	2340	0.29			0	
1/2/2006 15:30		19.68		0.25	2130	0.24			0	
1/2/2006 15:45		19.91		0.24	1970	0.23			0	
1/2/2006 16:00		19.15		0.22	1870	0.23			0	
1/2/2006 16:30		20.41		0.22	1750	0.22			0	
1/2/2006 17:15		19.84		0.22	1740	0.22			10	
1/2/2006 17:45		20.46		0.20	1510	0.20			10	
1/2/2006 17:55		20.43		0.19	1420	0.18			10	
1/2/2006 18:30		20.46		0.18	1290	0.17			10	
1/2/2006 19:20		20.26		0.18	1130	0.16			10	
1/2/2006 19:20	755	20.44	78.15	0.14	1101	0.15	12	0	6	0.93
1/2/2006 19:55		20.12		0.18	1060	0.15			10	
1/2/2006 20:00	890	20.48	78.10	0.14	1025	0.15	21	32	6	0.93
1/2/2006 20:30		20.06		0.17	1000	0.14			10	
1/2/2006 21:00	893	20.49	78.10	0.14	940	0.14	22	31	11	0.93
1/2/2006 21:00		20.46		0.17	960	0.14			10	
1/2/2006 21:30		20.52		0.18	950	0.13			10	
1/2/2006 22:00	567	20.51	78.09	0.17	893	0.15	26	28	28	0.93
1/2/2006 22:00		20.36		0.17	920	0.13			10	
1/2/2006 22:30		20.42		0.17	900	0.13			10	
1/2/2006 23:00	792	20.52	78.10	0.15	845	0.13	19	30	16	0.93
1/2/2006 23:30	752	20.54	78.10	0.14	806	0.13	6	21	4	0.93
1/3/2006 0:00	671	20.60	78.06	0.14	779	0.12	8	25	0	0.93
1/3/2006 0:30	599	20.55	78.12	0.14	751	0.12	15	19	0	0.93
1/3/2006 1:00	657	20.57	78.11	0.13	725	0.12	5	14	0	0.93
1/3/2006 1:30	726	20.57	78.10	0.13	699	0.12	10	21	0	0.93
1/3/2006 2:00	639	20.56	78.13	0.13	654	0.11	10	21	0	0.93
1/3/2006 2:30	632	20.64	78.06	0.13	635	0.11	8	16	4	0.93

# BOTTLE SAMPLE ANALYSIS

File Name: Main Return

Run Date: 1/6/2006 2:32 PM

Location: Portal #1 (Main Return) Sago Mine, Anker West Virginia Mining Company

Page 2

Anker West Virginia Mining Sago Mine 46-08791 Main Return Date and Time	GAS CONCENTRATIONS									
	H2	O2	N2	CH4	CO	CO2	C2H2	C2H4	C2H6	Ar
	ppm	%	%	%	ppm	%	ppm	ppm	ppm	%
1/3/2006 3:00	632	20.61	78.10	0.13	604	0.11	4	18	0	0.93
1/3/2006 3:30	359	20.61	78.14	0.12	570	0.10	0	0	0	0.93
1/3/2006 4:00	491	20.60	78.14	0.12	550	0.09	4	0	0	0.93
1/3/2006 4:30	435	20.61	78.14	0.12	531	0.10	0	0	0	0.93
1/3/2006 5:00	543	20.65	78.10	0.12	507	0.10	0	0	0	0.93
1/3/2006 5:30	410	20.65	78.13	0.12	478	0.09	0	0	0	0.93
1/3/2006 6:00	374	20.67	78.12	0.11	445	0.09	0	0	0	0.93
1/3/2006 6:30	379	20.71	78.08	0.11	432	0.08	0	0	0	0.93
1/3/2006 7:00	358	20.68	78.11	0.11	414	0.09	0	11	0	0.93
1/3/2006 7:30	404	20.68	78.11	0.11	389	0.08	0	0	0	0.93
1/3/2006 8:00	301	20.71	78.18	0.11	375	0.08	9	10	0	0.93
1/3/2006 8:30	363	20.71	78.10	0.11	355	0.08	0	0	0	0.93
1/3/2006 9:00	267	20.71	78.11	0.11	340	0.08	0	0	0	0.93
1/3/2006 9:30	250	20.71	78.11	0.11	334	0.08	7	0	0	0.93
1/3/2006 10:00	230	20.70	78.13	0.11	314	0.08	0	8	0	0.93
1/3/2006 10:30	207	20.73	78.11	0.10	295	0.07	6	8	5	0.93
1/3/2006 11:00	205	20.72	78.11	0.10	282	0.07	0	0	0	0.93
1/3/2006 11:30	184	20.78	78.06	0.11	271	0.07	0	8	0	0.93
1/3/2006 12:00	170	20.80	78.13	0.10	216	0.07	0	0	0	0.93
1/3/2006 12:30	190	20.79	78.07	0.10	213	0.07	0	0	0	0.93
1/3/2006 13:00	188	20.79	78.06	0.11	263	0.07	0	0	0	0.93
1/3/2006 13:30	164	20.81	78.12	0.10	212	0.07	0	0	0	0.93
1/3/2006 14:30	115	20.82	78.07	0.09	167	0.06	0	4	0	0.93
1/3/2006 15:00	99	20.81	78.06	0.09	170	0.06	4	5	0	0.93
1/3/2006 15:30	83	20.83	78.07	0.09	164	0.06	0	0	0	0.93
1/3/2006 16:30	70	20.84	78.06	0.09	148	0.06	0	0	0	0.93
1/3/2006 17:00	61	20.83	78.07	0.09	141	0.06	0	0	0	0.93
1/3/2006 17:30	56	20.85	78.06	0.09	136	0.06	0	0	0	0.93
1/3/2006 18:30	55	20.85	78.06	0.09	119	0.05	0	0	0	0.93
1/3/2006 19:00	52	20.86	78.06	0.08	119	0.06	0	0	0	0.93
1/3/2006 19:30	50	20.88	78.03	0.09	118	0.05	0	0	0	0.93
1/3/2006 20:00	50	20.86	78.06	0.08	107	0.05	0	0	0	0.93
1/3/2006 20:30	45	20.86	78.06	0.08	102	0.05	0	0	0	0.93
1/3/2006 21:00	42	20.86	78.06	0.08	128	0.05	0	0	0	0.93

# BOTTLE SAMPLE ANALYSIS

File Name: Main Return

Run Date: 1/6/2006 2:32 PM

Location: Portal #1 (Main Return) Sago Mine, Anker West Virginia Mining Company

Page 3

Date and Time	GAS CONCENTRATIONS									
	H2	O2	N2	CH4	CO	CO2	C2H2	C2H4	C2H6	Ar
	ppm	%	%	%	ppm	%	ppm	ppm	ppm	%
1/3/2006 21:30	40	20.87	78.06	0.08	120	0.05	0	0	0	0.93
1/3/2006 22:00	41	20.86	78.05	0.08	109	0.06	0	0	0	0.93
1/3/2006 23:00	33	20.87	78.06	0.08	97	0.05	0	0	0	0.93
1/3/2006 23:30	31	20.87	78.06	0.08	95	0.05	0	0	0	0.93
1/4/2006 0:01	30	20.87	78.06	0.08	95	0.05	0	0	0	0.93
1/4/2006 1:15	29	20.86	78.07	0.08	80	0.05	0	0	0	0.93
1/4/2006 1:30	27	20.87	78.06	0.08	76	0.05	0	0	0	0.93
1/4/2006 2:00	26	20.86	78.07	0.08	72	0.05	0	0	0	0.93
1/4/2006 2:30	26	20.81	77.84	0.08	69	0.03	0	0	0	0.93
1/4/2006 3:00	24	20.86	78.07	0.08	66	0.05	0	0	0	0.93
1/4/2006 3:30	24	20.87	78.07	0.08	61	0.05	0	0	0	0.93
1/4/2006 4:00	23	20.87	78.07	0.08	58	0.05	0	0	0	0.93
1/4/2006 4:30	22	20.86	78.07	0.08	54	0.05	0	0	0	0.93
1/4/2006 5:00	21	20.87	78.07	0.08	51	0.05	0	0	0	0.93
1/4/2006 5:30	20	20.83	77.91	0.08	49	0.05	0	0	0	0.93
1/4/2006 6:00	20	20.82	77.89	0.08	49	0.05	0	0	0	0.93
1/4/2006 6:30	20	20.87	78.07	0.08	46	0.05	0	0	0	0.93
1/4/2006 7:00	19	20.87	78.07	0.08	43	0.05	0	0	0	0.93
1/4/2006 7:30	17	20.87	78.07	0.08	43	0.05	0	0	0	0.93
1/4/2006 8:00	18	20.87	78.07	0.08	39	0.05	0	0	0	0.93
1/4/2006 9:00	15	20.87	78.07	0.08	31	0.05	0	0	0	0.93
1/4/2006 10:00	15	20.85	78.08	0.08	26	0.05	0	0	0	0.93
1/4/2006 11:00	23	20.85	78.09	0.08	30	0.05	0	0	0	0.93
1/4/2006 12:00	24	20.83	78.10	0.09	27	0.05	0	0	0	0.93
1/4/2006 13:00	19	20.82	78.10	0.09	24	0.05	0	0	0	0.93
1/4/2006 14:00	18	20.82	78.11	0.09	24	0.05	0	0	0	0.93
1/4/2006 15:00	18	20.83	78.10	0.09	25	0.05	0	0	0	0.93
1/4/2006 16:00	17	20.81	78.13	0.09	22	0.05	0	0	0	0.93
1/4/2006 18:00	15	20.84	78.09	0.09	20	0.04	0	0	0	0.93
1/4/2006 20:00	14	20.85	78.08	0.09	18	0.05	0	0	0	0.93
1/4/2006 22:00	12	20.85	78.08	0.09	15	0.05	0	0	0	0.93
1/5/2006 0:00	10	20.84	78.10	0.09	13	0.04	0	0	0	0.93
1/5/2006 2:00	9	20.84	78.10	0.09	10	0.04	0	0	0	0.93
1/5/2006 4:00	8	20.85	78.09	0.08	10	0.04	0	0	0	0.93

## BOTTLE SAMPLE ANALYSIS

**File Name: Main Return**

Run Date: 1/6/2006 2:32 PM

**Location: Portal #1 (Main Return) Sago Mine, Anker West Virginia Mining Company**

Page 4

[illegible]

Furnished to  
John Urosek "MSHA"

Jeff Bennett  
1-11-06  
472-8397

1-2-06

8:30 am #1 return readings 47 ppm CO 0.0 CH<sub>4</sub> 20.4 O<sub>2</sub>  
Area = 108 LFM = 863 CFM = 93,204

\* This information was obtained by James "Skip" Scott, ICA employee

9:04 am Fan Chart 1 1/2 water gauge 3/4" on left, 1" on right

\* information obtained by Jeff Bennett / WV State

9:10 am #1 return readings with Jeff Bennett's Explorer 4, Approx. 10' in by high wall  
23 ppm CO 0.0 CH<sub>4</sub> 20.3 O<sub>2</sub>

#1 return readings with James "Skip" Scott's ITX Approx. 10' in by high wall  
50 ppm CO 0.0 CH<sub>4</sub> 20.6 O<sub>2</sub>

10:04 am water gauge @ Fan 3/4" on left, 1" on right

10:27 am #1 return readings "at the outby end of canopy" with Jeff Bennett's Explorer 4 505 ppm CO

10:47 am #1 return readings "at the outby end of canopy" with Jeff Bennett's Explorer 4 505 ppm CO 0.8 CH<sub>4</sub> 19.4 O<sub>2</sub>

#1 return readings "at the outby end of canopy" with MSHA's Pat Vanover's MSA solaris  
500 ppm CO 0.8 CH<sub>4</sub> 19.8 O<sub>2</sub>

10:52 am #1 return readings "at the outby end of canopy" changed detectors with WV State John Scott's (mine was low battery) Exp. 4  
472 ppm CO 1.0 CH<sub>4</sub> 19.0 O<sub>2</sub>  
MSHA's Ron Postleweights MSA at same location  
500 ppm CO 1.1 CH<sub>4</sub> 19.4 O<sub>2</sub>



Jeff Beavert  
1-11-06

1-2-06

472-8397

11:20 Am #1 return "At outby end of canopy"

WV State/Explorer 4

472 PPM CO

0.8 CH<sub>4</sub>

19.3 O<sub>2</sub>

MSHA's Pat Vanover/Ron Postkewitz

500 ppm CO

0.9 CH<sub>4</sub>

19.7 O<sub>2</sub>

11:27 Am #1 return "At outby end of canopy"

WV State/Explorer 4

472 ppm CO

0.7 CH<sub>4</sub>

19.5 O<sub>2</sub>

MSHA's Pat Vanover/Ron Postkewitz

500 ppm CO

0.8 CH<sub>4</sub>

19.7 O<sub>2</sub>

12:00 Am #1 return "At outby end of canopy" taken by Jeff Beavert  
with ICG's detector (270)?

2000+ ppm CO

1:05 pm. Taken by BCMR under O<sub>2</sub> - started walking down in pit  
by Clyde Tenney & James Paugh using I T X

#1	2000+ ppm CO	0.0 CH <sub>4</sub>	20.9 O <sub>2</sub>
----	--------------	---------------------	---------------------

#2	2000+ ppm CO	0.0 CH <sub>4</sub>	20.7 O <sub>2</sub>
----	--------------	---------------------	---------------------

#3	4400 ppm CO	0.0 CH <sub>4</sub>	20.7 O <sub>2</sub>
----	-------------	---------------------	---------------------

#4	1700 ppm CO	0.0 CH <sub>4</sub>	20.7 O <sub>2</sub>
----	-------------	---------------------	---------------------

BCMR = Barbour County Mine Rescue

1A \* MSHA's Ron Tulinski informed BCMR that detector  
peaked out at 4400

\* MSHA's Willie Spenz recording readings

JH Ben #  
1-11-06  
472-8397

1-2-06

1:5 pm Taken by BCMR Clyde Tenney & James Pugh

#1	1372 ppm CO	0.0 CH <sub>4</sub>	20.6	O <sub>2</sub>
#2	77 ppm CO	0.0 CH <sub>4</sub>	20.9	O <sub>2</sub>
#3	24 ppm CO	0.0 CH <sub>4</sub>	20.7	O <sub>2</sub>
#4	14 ppm CO	0.0 CH <sub>4</sub>	20.5	O <sub>2</sub>

1:44 pm taken by BCMR Clyde Tenney & James Pugh

#1	1860 ppm CO	0.0 CH <sub>4</sub>	20.9	O <sub>2</sub>
#2	155 ppm CO	0.0 CH <sub>4</sub>	20.7	O <sub>2</sub>
#3	54 ppm CO	0.0 CH <sub>4</sub>	20.7	O <sub>2</sub>
#4	32 ppm CO	0.0 CH <sub>4</sub>	20.6	O <sub>2</sub>

2:00 pm taken by BCMR Ryan Jeran & Roger Hedricks (2 detectors)

#1	2430 / 2700 ppm CO	0.6 0.5 CH <sub>4</sub>	19.7-19.6	O <sub>2</sub>
#2	417 / 544 ppm CO	0.0 0.0 CH <sub>4</sub>	20.6-20.5	O <sub>2</sub>
#3	178 / 179 ppm CO	0.0 0.0 CH <sub>4</sub>	20.6-20.4	O <sub>2</sub>
#4	135 / 105 ppm CO	0.0 0.0 CH <sub>4</sub>	20.7-20.5	O <sub>2</sub>

2:26 pm taken by BCMR Roger Hedricks & Ryan Jeran (2 detectors)

#1	1880 / 2280 ppm CO	0.6 0.5 CH <sub>4</sub>	19.7-19.6	O <sub>2</sub>
#2	292 / 212 ppm CO	0.0 0.0 CH <sub>4</sub>	20.7-20.5	O <sub>2</sub>
#3	127 / 91 ppm CO	0.0 0.0 CH <sub>4</sub>	20.6-20.3	O <sub>2</sub>
#4	72 / 69 ppm CO	0.0 0.0 CH <sub>4</sub>	20.5-20.4	O <sub>2</sub>

#1 20 x 8 = Area

1374 = LFM

#2 16 x 7 = Area

276 = LFM

#3 9 x 9 = Area

335 = LFM

#4 16 x 6 = Area

142 = LFM

④

Jeff Bennett  
1-11-06  
472-8397

1-2-06

3. 3pm Taken by BCMR

#1 1800 ppm CO	0.5 CH <sub>4</sub>	19.5 O <sub>2</sub>
#2 507 ppm CO	0.0 CH <sub>4</sub>	19.5 O <sub>2</sub>

3:50pm Taken by BCMR - John Cottrill &amp; Ryan Jeran

#1 1985 ppm CO	0.4 CH <sub>4</sub>	19.9 O <sub>2</sub>
----------------	---------------------	---------------------

4:00pm Taken by BCMR - Clyde Tenney &amp; Jeff Byrd

#1 2251 ppm CO	0.4 CH <sub>4</sub>	20.2 O <sub>2</sub>
#2 410 ppm CO	0.0 CH <sub>4</sub>	20.9 O <sub>2</sub>
#3 120 ppm CO	0.0 CH <sub>4</sub>	20.9 O <sub>2</sub>
#4 82 ppm CO	0.0 CH <sub>4</sub>	20.9 O <sub>2</sub>

## **Mine Rescue Teams**

**Barbour County Mine Rescue**

**Team No.1**

**Team No.2**

**Tri-State Mine Rescue Association**

**I.C.G. Viper Team**

**Consolidation Coal Company**

**Bailey**

**Blacksville No.2**

**Enlow Fork**

**Loveridge**

**Robinson Run**

**Shoemaker**

**Mine 84**

**McElroy Coal Company**

**McElroy**

**West Virginia Miners' Health, Safety and Training**

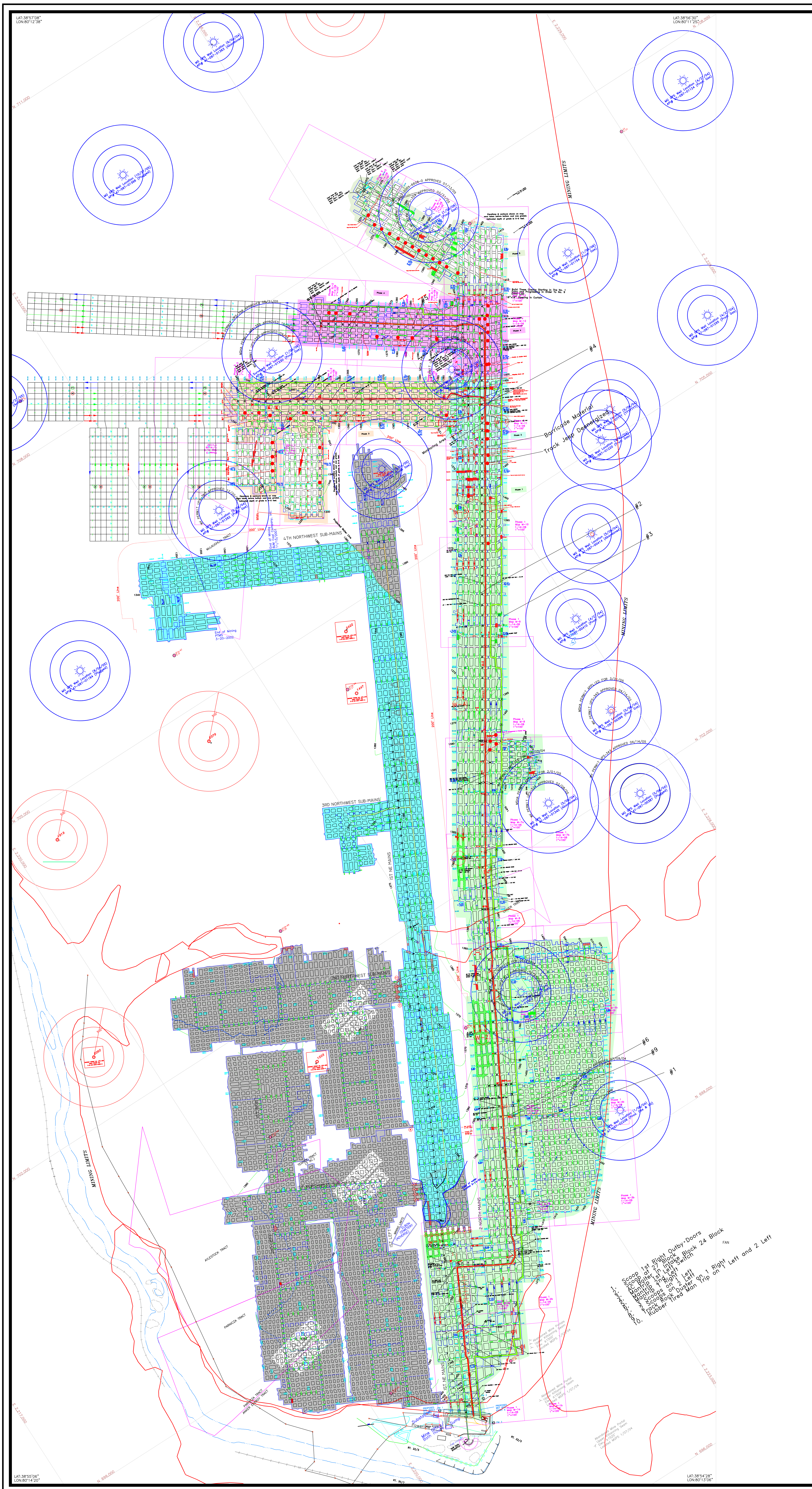
**Mine Safety and Health Administration**

# **APPENDIX 4**

## **Mine Recovery**

- **Mine Recovery - Maps 1-5, Covers Entire Mine, Map 4 and 5 Covers The Explosion Area.**
- **Listing of Mine Recovery Plan Submissions**
- **Approved Mine Recovery Plans**
- **Listing of Recovery Participants**
- **Command Center Notes**





With notes from:  
- Mine Electrical Map - 01/02/06 to 01/04/06  
- Mine Rescue Teams - 01/02/06 to 01/04/06  
- Mine Recovery Teams - 01/02/06 to 01/04/06

LEGEND	
STOPPING WITH MANDOOK	==
UNDERCAST	⌂
BELT BOX CHECK	⊕
PERMANENT SEAL	⊕
PROJECTED SEAL	⊕
REGULATOR	⊕
AIR LOCK / DOUBLE DOORS	⊕
FALL	⊕
CRIBS	⊕
WATER	⊕
BELT TRANSFER POINT	⊕
FIRE VALVE	⊕
BOTTOM COAL ELEVATION	⊕
TRACK	⊕
PROPOSED VENTILATION CONTROLS SHOWN IN GREEN	⊕
GAS/OIL WELL	⊕
WATER WELL	⊕
CORE HOLE	⊕
UNDERGROUND SURVEY STATION	⊕
CHECK SURVEY STATION	⊕
BENCHMARK	⊕
INTAKE AIRWAY	⊕
RETURN AIRWAY	⊕
PRIMARY ESCAPEWAY	⊕
ALTERNATE ESCAPEWAY	⊕
PROPOSED STOPPING	⊕
EVALUATION POINT	⊕
SECTION ID NO.	⊕
BELT	⊕
MINING LIMITS	⊕
OUTCROP LINE	⊕

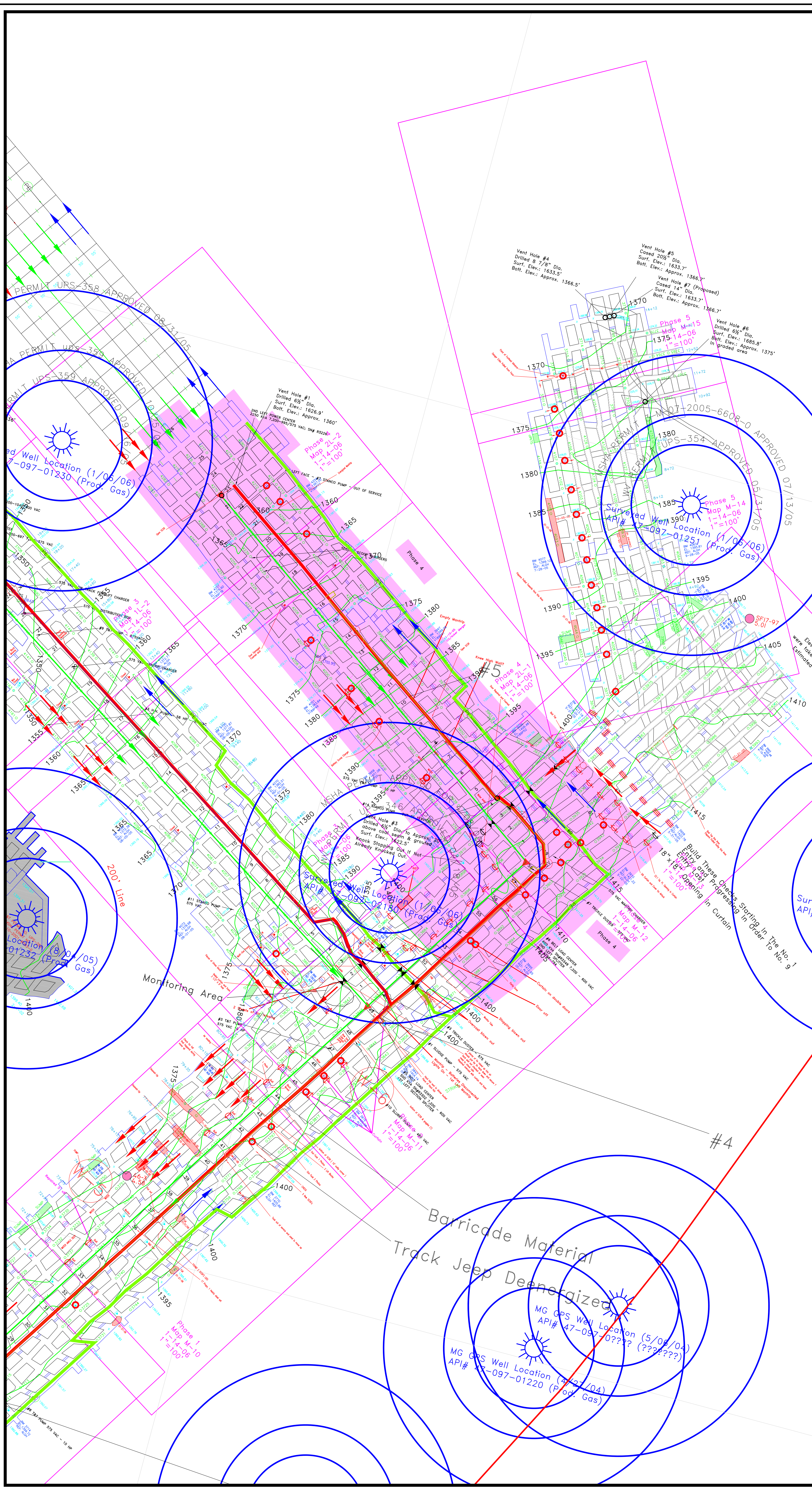
Scale: 1" = 300'

**Sago Mine**  
Middle Kittanning Seam  
MSHA ID # 46-08791  
WV STATE ID # U-2016-988

Rev: 01/26/06  
Rev: 01/13/06

Mine Recovery - Phase 1-5 Map





Ventilation Control Work Completed:

Number of Temporary Curtains To Be Installed - 20  
Number of Overcasts To Be Repaired - 0

- Mine Electrical Map
- Mine Rescue Teams - 01/02/06 to 01/04/06
- Mine Recovery Teams - 01/21/06 to 01/26/06

# LEGEND

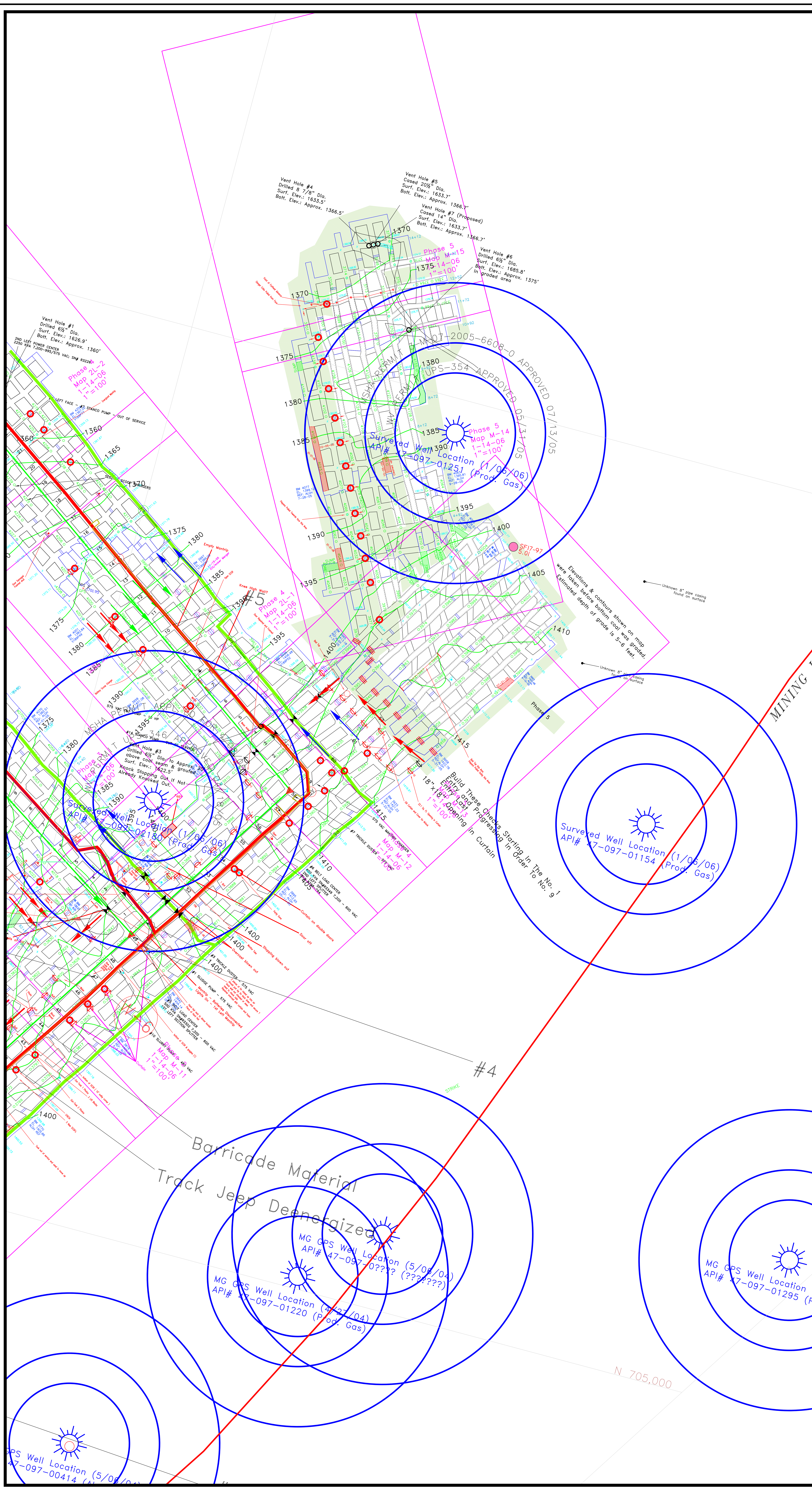
STOPPING		GAS/OIL WELL	
STOPPING WITH MANDROO		WATER WELL	
OVERCAST		CORE HOLE	
UNDERCAST		UNDERGROUND SURVEY STATION	
BELT BOX CHECK		CHECK SURVEY STATION	
PERMANENT SEAL		BENCHMARK	
PROJECTED SEAL		HAULAGE AIRWAY	
REGULATOR		INTAKE AIRWAY	
AIR LOCK / DOUBLE DOORS		RETURN AIRWAY	
FALL		PRIMARY ESCAPEWAY	
CRIBS		ALTERNATE ESCAPEWAY	
WATER		PROPOSED STOPPING	
BELT TRANSFER POINT		EVALUATION POINT	
FIRE WINK		SECTION ID NO.	
BOTTOM COAL ELEVATION		WINDING LINES	
TRACK		OUTCROP LINE	

PROPOSED VENTILATION CONTROLS SHOWN IN GREEN.

Sago Mine  
Middle Kittanning Seam  
MSHA ID # 46-08791  
WV STATE ID # U-2016-98B

## Mine Recovery – Phase 4 Map





Ventilation Control Work Completed:

Number of Temporary Curtains To Be Installed - 5  
Number of Overcasts To Be Repaired - 0

With notes from:

- Mine Electrical Map
- Mine Rescue Teams - 01/02/06 to 01/04/06
- Mine Recovery Teams - 01/21/06 to 01/26/06

## LEGEND

STOPPING		OAS/OIL WELL	
STOPPING WITH WANDOUR		WATER WELL	
OVERCAST		CORE HOLE	
UNDERCAST		UNDERGROUND SURVEY STATION	
BELT BOX CHECK		CHECK SURVEY STATION	
PERMANENT SEAL		BENCHMARK	
PROJECTED SEAL		HULLAGE AIRWAY	
REGULATOR		INTAKE AIRWAY	
AIR LOCK / DOUBLE DOORS		RETURN AIRWAY	
		PRIMARY ESCAPEWAY	
FALL		ALTERNATE ESCAPEWAY	
CHIES		PURPOSED STOPPING	
WATER		EVALUATION POINT	
BELT TRANSFER POINT		CADASTRE (X) NO.	
FIRE WAIVE		BELT	
BOTTOM COAL ELEVATION		MINING LIMITS	
TRACK		OUTCROP LINE	

PROPOSED VENTILATION CONTROLS SHOWN IN GREEN.

0' 100' 200'

Scale: 1" = 100'

Sago Mine  
Middle Kittanning Seam

MSHA ID # 46-08791  
WV STATE ID # U-2016-98B

Rev: 01/26/0  
Rev: 01/13/0

Mine Recovery – Phase 5 Map



## Recovery Plan Submissions

January 05, 2006	Submittal #1-R	Approved 1/05/06
	Request to complete the drilling of borehole #2 on 1 <sup>st</sup> Left.	
January 06, 2006	Submittal #R-2	Approved 1/06/06
	Request to remove the power from the mine CO system.	
January 06, 2006	Submittal #R-3	Approved 1/06/06
	Request to complete the drilling of borehole # 4.	
January 07, 2006	Submittal #R-4a	Approved 1/07/06
	Request to drill a 24" borehole #5.	
January 08, 2006	Submittal #R-5	Approved 1/08/06
	Request to install 8" PVC pipe on top of hole #4.	
January 09, 2006	Submittal #R-5a	Approved 1/09/06
	Request to change size of sampling tube.	
January 08, 2006	Submittal #R-6	Approved 1/09/06
	Request to drill borehole # 5.	
January 09, 2006	Submittal #R-7	Approved 1/09/06
	Request to drill borehole # 6.	
January 12, 2006	Submittal #R-7	Not Approved
	Recovery Plan Outline.	
January 12, 2006	Submittal #R-8	Approved 1/12/06
	Recovery Plan Outline.	
January 12, 2006	Submittal #R-9	Approved 1/12/06
	Request to re-drill and clean borehole #4.	
January 14, 2006	Submittal #R-10	Approved 1/14/06
	Request to drill borehole #7.	

January 17, 2006	Submittal #R-10a		Approved 1/17/06
	Replaces request #R-10 changed to 16 inch hole #7.		
January 18, 2006	Submittal #R-11		Approved 1/18/06
	Request to ventilate the #4 borehole with air line.		
January 19, 2006	Submittal #R-12		Approved 1/19/06
	Request to use the #4 borehole for ventilation.		
January 20, 2006	Submittal #R-7e	Phase 1	Approved 1/20/06
January 20, 2006	Submittal #R-7d	Phase 2	Approved 1/20/06
January 20, 2006	Submittal #R-7d	Phase 3	Approved 1/20/06
January 20, 2006	Submittal #R-7d	Phase 4	Approved 1/20/06
January 20, 2006	Submittal #R-7d	Phase 5	Approved 1/20/06
January 21, 2006	Submittal #R-7e-(1)	Amendment	Approved 1-21-06
January 22, 2006	Submittal #R-7d-(1)	Amendment	Approved 1-22-06
January 22, 2006	Submittal #R-7d-(2)	Amendment	Approved 1-22-06
January 22, 2006	Submittal #R-7e-(2)	Amendment	Approved 1-22-06

Anker WV Mining Co. Inc.  
Sago Mine  
Rt. 9 Box 507  
Buckhannon, WV 26201  
Phone 304-473-1676  
MSHA I.D. 46-08791 WV-MHST I.D. U2016-98B

#1R

January 5, 2006

Anker West Virginia Mining Company, Inc., Sago Mine, MSHA Id. 46-08791 is submitting for your permission and prompt approval to complete the drilling of the #2 drill hole on the 1 Left Section, number 5 Entry at the number 31 Block. The current drill hole will penetrate the mine in approximately 36 feet. This will allow for the ventilation of this area of the mine.

Safety Provision:

1. No persons will be in the mine.
2. The electrical power is de-energized in this area of the mine.
3. Persons on surface at the drill hole will be limited to those needed to operate the drill.
4. The bore hole will be monitored for CO, O2 & CH4 levels.

Should you have any questions concerning this matter please call me at 304-473-1676.

Sign Off

WV-MHST

*John Collins*

January 5, 2006

MSHA

*James Patterson*

January 5, 2006

Company

*ATG*  
12:30 PM

January 5, 2006

Anker WV Mining Co. Inc.  
Sago Mine  
Rt. 9 Box 507  
Buckhannon, WV 26201  
Phone 304-473-1676  
MSHA I.D. 46-08791 WV-MHST I.D. U2016-98B

#2R

January 6, 2006

Anker West Virginia Mining Company, Inc., Sago Mine, is submitting for your permission and prompt approval remove the power from the CO system within Sago Mine. This power will be disconnected from the surface.

Should you have any questions concerning this matter please call me at 304-473-1676.

Sign Off

WV-MHST Barry Elder January 6, 2006

MSHA James S. Satterfield January 6, 2006

8:51 AM Company J. B. Satterfield January 6, 2006

Anker WV Mining Co. Inc.  
Sago Mine  
Rt. 9 Box 507  
Buckhannon, WV 26201  
Phone 304-473-1676  
MSHA I.D. 46-08791 WV-MHST I.D. U2016-98B

#R3

January 6, 2006

Anker West Virginia Mining Company, Inc., Sago Mine, is submitting for your permission and prompt approval to complete the drilling of the #4 drill hole on the Old 2 Left Section (previously sealed area), number 7 Entry, one block inby spad station 3748. This will be a maximum 8 inch hole used to monitor the mine atmosphere, then an additional maximum 8 inch hole will be drilled to use as a pilot hole for a cased to 20.5 inch hole to be drilled, but not penetrate the mine atmosphere, at this time. This will help determine the next step to be taken regarding recovery of the mine.

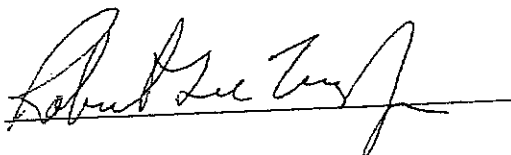
Safety Provision:

1. No persons will be in the mine.
2. The electrical power is de-energized in this area of the mine.
3. Persons on surface at the drill hole will be limited to those needed to operate the drill.
4. The bore hole will be monitored for CO, O2 & CH4 levels.

Should you have any questions concerning this matter please call me at 304-473-1676.

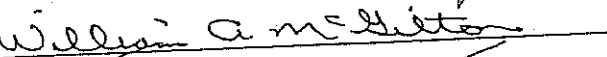
Sign Off

WV-MHST



January 6, 2006

MSHA



January 6, 2006

3:43pm

Company



January 6, 2006

Anker WV Mining Co. Inc.  
Sago Mine  
Rt. (Box 507  
Buckhannon, WV 26201  
Phone 304-473-1676  
MSHA I.D. 46-08791 WV ID U-  
2016-98B

January 7, 2006

Submittal # R-4a

Anker West Virginia Mining Company, Sago Mine, is submitting for your review and prompt approval to drill a 24 inch steel cased bore hole into the Old 2 Left section (previously sealed area), number 7 Entry, one block in by spad station 3748. (Refer to attached map # 1) The total target distance to drill will be 260 ft. This will allow for positive ventilation of this area therefore enhancing the effectiveness of removal of mine gases and other contaminants that could be detrimental to the safety of the mine.

The following safety provisions for (Cutting and Welding) will be in place prior to commencing work.

1. No persons will be in the mine.
2. Upon hole through the bore hole will be monitored for CO, O2 & CH4 levels. No cutting and welding will be conducted if methane levels are detected in excess of 1 %. Note: The Drill Rig will be shut down during this time. Testing using hand held detectors will be done before, during and after cutting and welding work is being done.
3. The mine atmosphere will be separated from that of the out side by an inert plug. ( Refer to the attached Drawing # 2)
4. Tests for mine gases will be conducted prior to commencing cutting and welding.
5. A certified person will be present during cutting and welding (When near the Bore Hole) to ensure that the above stated precautions are in place and adhered to. A certified person will conduct tests for CH4, CO & O2 prior to and during and after the completion of cutting and or welding. Fire extinguishers water & rock dust will be readily available at the drill site for fire fighting.
6. The Bore Hole will be ventilated by (Blowing Compressed Air into the hole via the drill steel.) This will deliver approximately 2,000 cfm of air into the 8 inch hole. Note: the 24 inch hole will allow for 3,000 cfm of air into the hole. This will be done continuously during cutting and welding operations so as to dilute and render harmless noxious and or explosive gasses.
7. Belt Skirting will be placed around the hole to negate slag and or embers from falling in the hole during cutting and or welding

January 7, 2006

Sign Off:

WVMHS&T Kit C. Flann 1/7/06 4:45 pm

MSHA William A. McSilton

4:48 pm

Company RTV Co Submittal  
Time: 4:48 pm

Sample Hole

FORWARD BY AIR MAIL 11-10-48

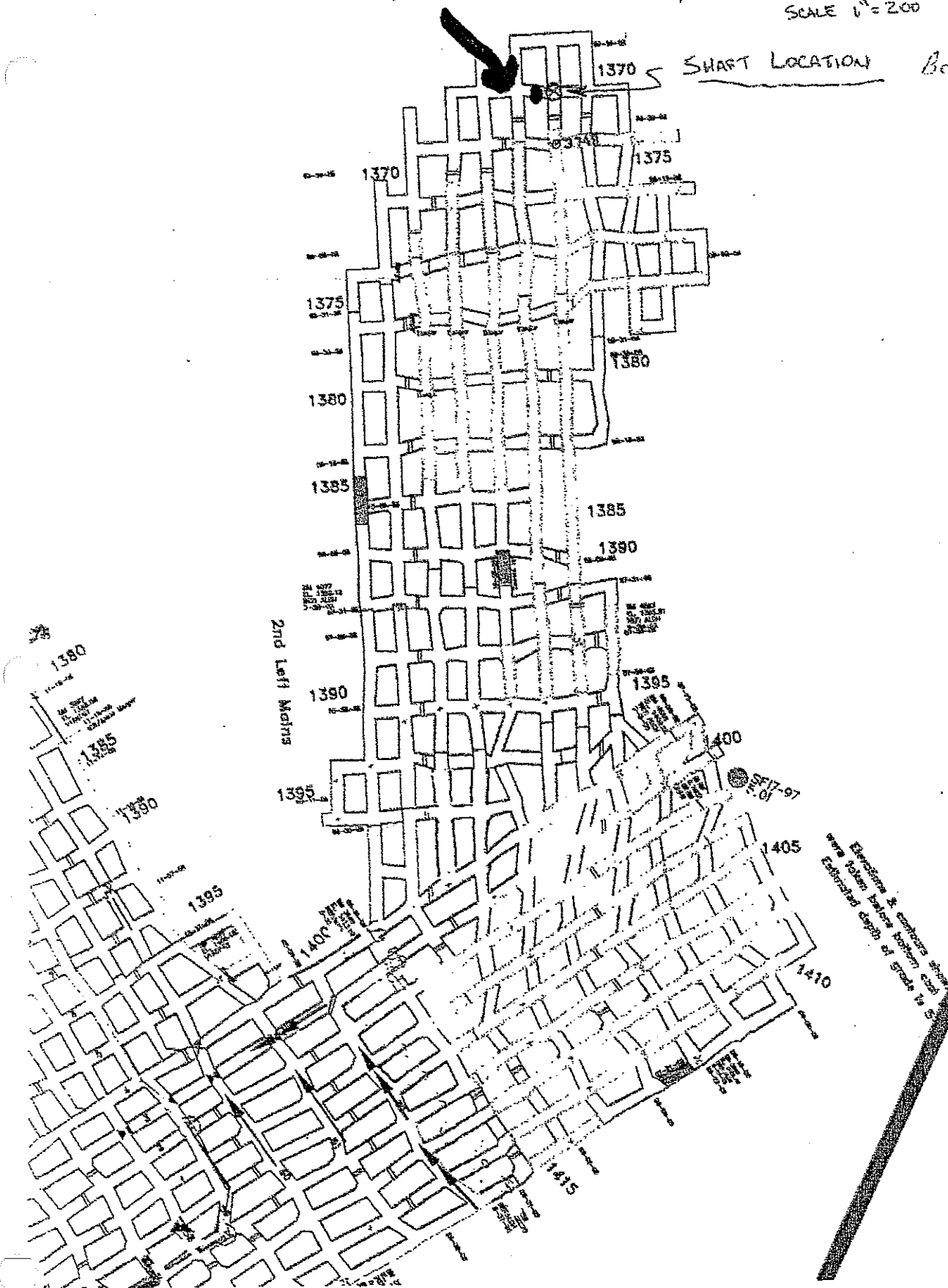
SAGO MINE

U-2016983

SCALE 1"=200'

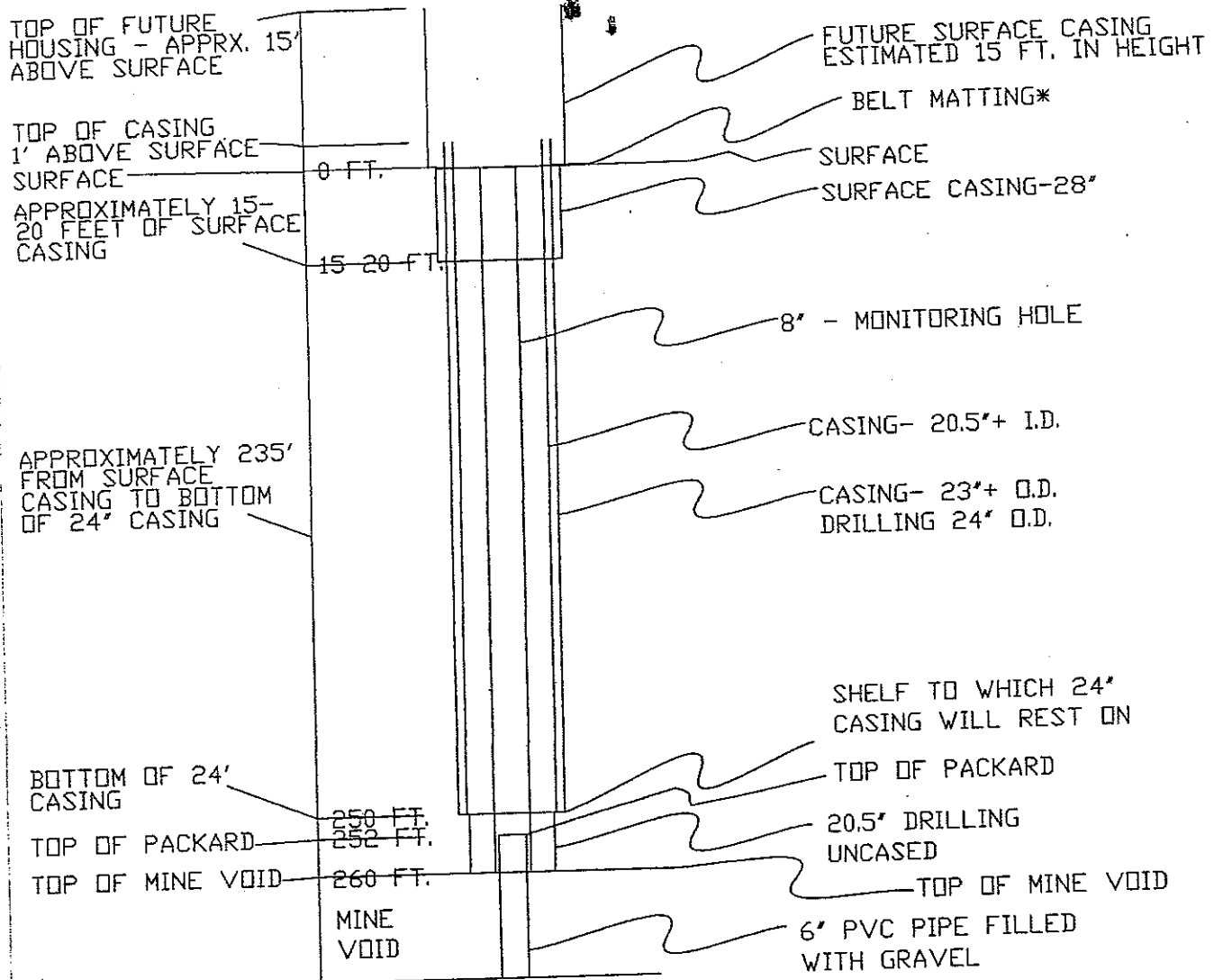
SHAFT LOCATION

Bottom





# DRAWING - R4a.



THE PACKARD WILL BE IN PLACE PRIOR TO STARTING THE DRILLING FOR THE 24" HOLE

\*- BELT MATTING WILL BE IN PLACE DURING THE ENTIRE WELDING/CUTTING PERIOD.

1. DRILL SURFACE CASING.
2. DRILL 8" HOLE INTO MINE CAVITY.
3. INSTALL 6" PVC PIPE FILLED WITH GRAVEL (PACKARD).
4. INSTALL INERT MATERIAL - CEMENT/ROCK DUST ON TOP OF PACKARD.
5. START 24" DRILLING - DRILLING TO SHELF - APPROXIMATELY 10' ABOVE MINE VOID.
6. INSTALL ALL CASING TO SHELF AREA.
9. DRILL REMAINDER OF HOLE INTO MINE VOID 20.5" DIAMETER WILL NOT BE CASED.

Anker WV Mining Co. Inc.  
Sago Mine  
Rt. (Box 507  
Buckhannon, WV 26201  
Phone 304-473-1676  
MSHA I.D. 46-08791 WV ID U-  
2016-98B

January 8, 2006

Submittal # R-5

Anker West Virginia Mining Company, Sago Mine, is submitting for your review and prompt approval to affix a 90 degree plastic pipe onto the 8 inch bore hole that has been drilled into the Old 2 Left section (previously sealed area), number 7 Entry, one block inby spad station 3748. (Refer to attached map # 1) The total depth drilled to the mine void is 260 ft. This will allow for the discharged gasses to be vented safely away from the drill site.

This will be accomplished by laying 60 feet of 8 inch PVC pipe away from the rig site and installing a ¼ inch plumbed attachment so as to allow for sampling of the mine atmosphere that is currently being vented. (Refer to attached Drawing # 2)

**The following safety provisions for will be in place and reviewed with all immediate parties prior to commencing work.**

1. No open flames, smoking articles or cutting and welding will be allowed near the bore hole and or its point of discharge for a minimum radius of 100 feet. The Drill Rig will remain shut down while the pipe installation is being carried out.
2. The Drill Rig will continue to be shut down if methane is detected in excess of 1 % during this time .Testing will be accomplished using hand held detectors and will continue to be done before, during and after plumbing work is being done.
3. A certified person will be present during pipe installation to ensure that the above stated precautions are in place and adhered to. A certified person will conduct tests for CH<sub>4</sub>, CO & O<sub>2</sub> prior to and during and after the completion of installing the pipe elbow and pipe to the bore hole. Fire extinguishers water & rock dust will be readily available at the drill site for fire fighting.
4. Upon completion of the work as stated above the work area will be monitored for CH<sub>4</sub> levels. The areas to be examined but not exclusively limited to will consist of the Drill Rig, Dog House, Cabs and any other place were a reasonable person would think that an accumulation could occur. Once this examination has been conducted and Ch<sub>4</sub> has been verified to be less than 1% then drilling operations and or work may resume.

January 8, 2006

5. MSHA will affix a 3/8 sampling tube at the end of the 60 ft discharge line. Additional points may be added as deemed necessary for analysis.
6. All Safety provisions issued previously will continue to be in effect as an addition to this plan.

Sign Off:

WVMHS&T Brian M. Lb 1-8-06 12:30pm

MSHA Bennett & Tenney 1-8-06

Company W. V. M. S. & T. Submittal  
Time: 12:21pm

II L

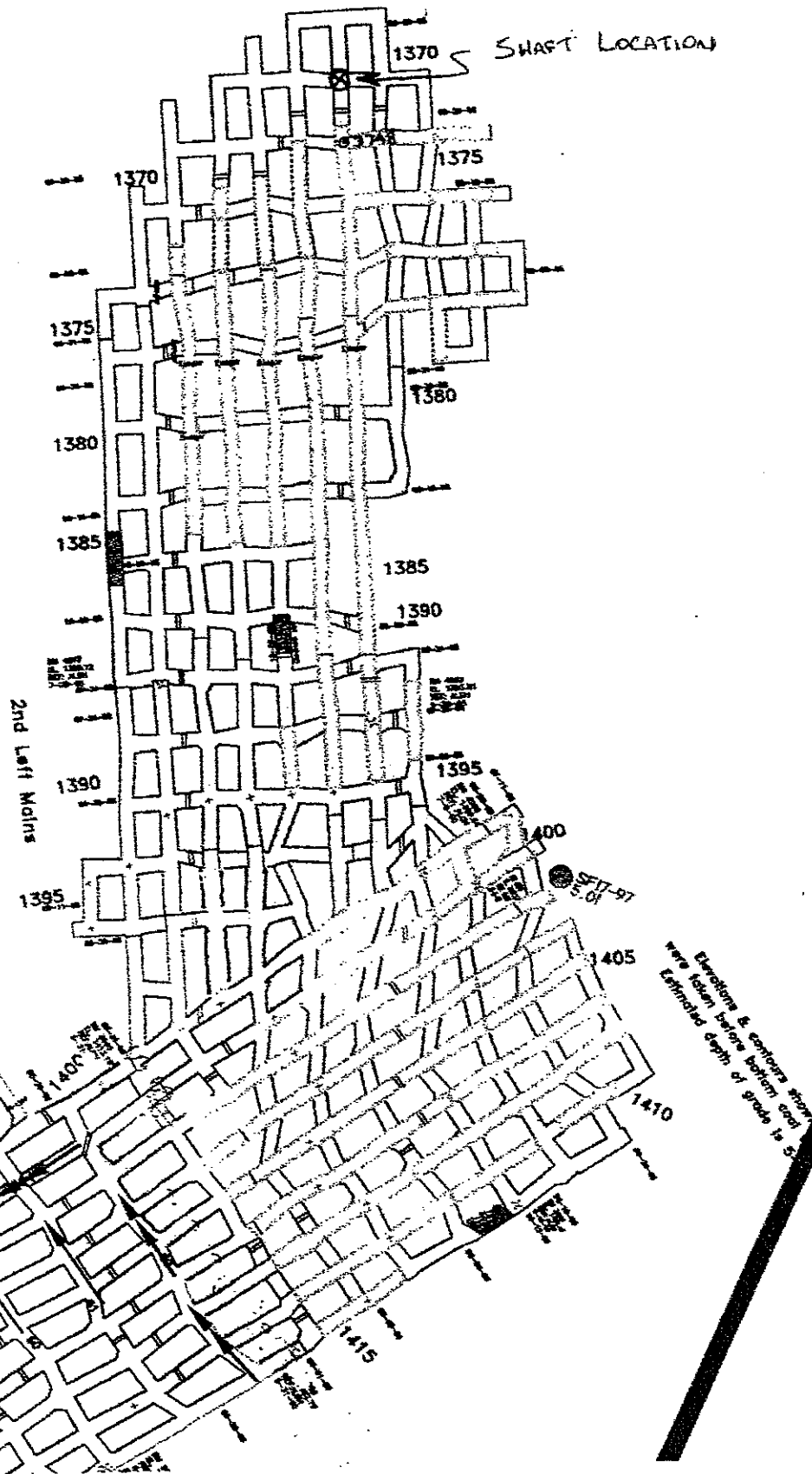
ANKER WEST VIRGINIA POWER CO.

SAGO MINE

U-20K0983

SCALE 1"=200'

SHAFT LOCATION



Recovery Drawing R-5

390 Mine MSHA ID # 46-08791

WY I.D. # U-2016-988

1-08-06

DRAWING NUMBER

9 1/8 inch I.D. Steel Cap with a 2 inch reduced to a 1/4 inch pipe fitting  
for atmospheric sampling.

8.5 inch O.D. (Yellow Mine Pipe)

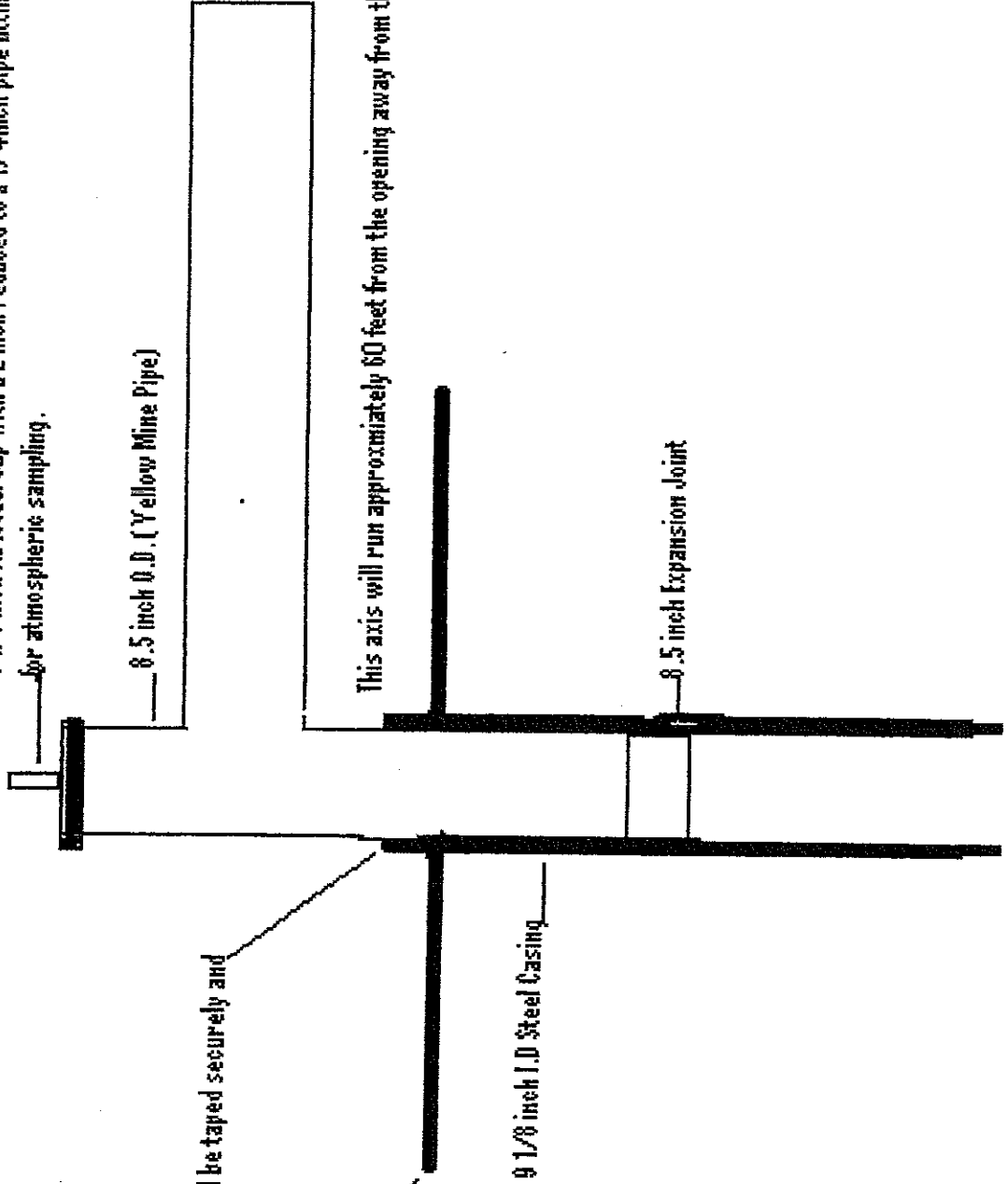
The perimeter connection will be taped securely and  
caulked.

Surface level.

This axis will run approximately 60 feet from the opening away from the rig.

9 1/8 inch I.D. Steel Casing

8.5 inch Expansion Joint



Anker WV Mining Co. Inc.  
Sago Mine  
Rt. (Box 507  
Buckhannon, WV 26201  
Phone 304-473-1676  
MSHA I.D. 46-08791 WV ID U-  
2016-98B

January 9, 2006

Submittal # R-5a

Anker West Virginia Mining Company, Sago Mine, is submitting for your review and prompt approval to affix a 90 degree plastic pipe onto the 8 inch bore hole that has been drilled into the Old 2 Left section (previously sealed area), number 7 Entry, one block inby spad station 3748. (Refer to attached map # 1) The total depth drilled to the mine void is 260 ft. This will allow for the discharged gasses to be vented safely away from the drill site.

This will be accomplished by laying 60 feet of 8 inch PVC pipe away from the rig site and installing a 3/8 inch plumbed attachment so as to allow for sampling of the mine atmosphere that is currently being vented. ( Refer to attached Drawing # 2 )

**The following safety provisions for will be in place and reviewed with all immediate parties prior to commencing work.**

1. No open flames , smoking articles or cutting and welding will be allowed near the bore hole and or its point of discharge for a minimum radius of 100 feet. The Drill Rig will remain shut down while the pipe installation is being carried out.
2. The Drill Rig will continue to be shut down if methane is detected in excess of 1 % during this time .Testing will be accomplished using hand held detectors and will continue to be done before, during and after plumbing work is being done.
3. A certified person will be present during pipe installation to ensure that the above stated precautions are in place and adhered to. A certified person will conduct tests for CH<sub>4</sub>, CO & O<sub>2</sub> prior to and during and after the completion of installing the pipe elbow and pipe to the bore hole. Fire extinguishers water & rock dust will be readily available at the drill site for fire fighting.
4. Upon completion of the work as stated above the work area will be monitored for CH<sub>4</sub> levels . The areas to be examined but not exclusively limited to will consist of the Drill Rig , Dog House , Cabs and any other place where a reasonable person would think that an accumulation could occur. Once this examination has been conducted and CH<sub>4</sub> has been verified to be less than 1% then drilling operations and or work may resume.

January 9, 2006

5. All Safety provisions issued previously will continue to be in effect as an addition to this plan .
6. The plumbing atop the # 4 Borehole will be modified to allow for monitoring of the water depth in the borehole .

Sign Off:

WVMHS&T *David Barber*

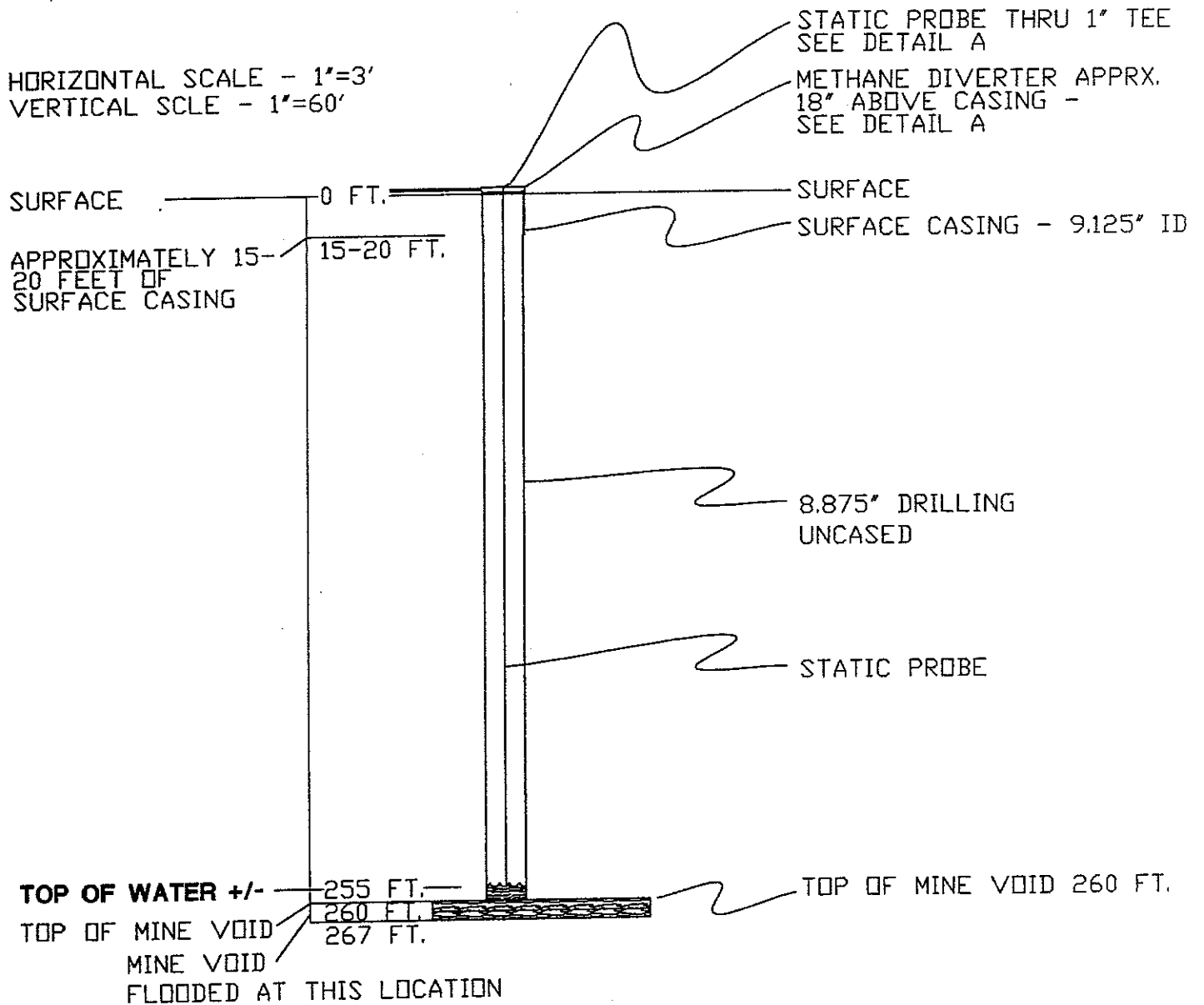
MSHA *Kenneth W. Lennex* *1-9-05 12:50 PM*

Company *W. H. C. Co.* Submittal

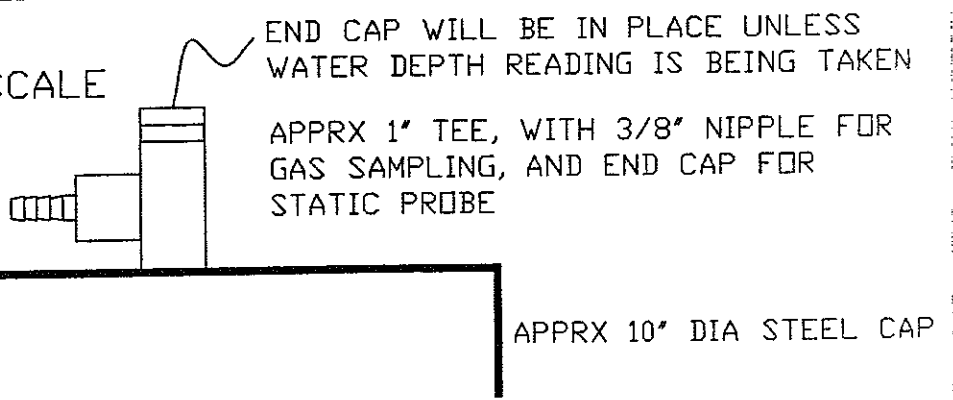
Time: *1-9-06*  
*12:50 PM*

SUBMITTAL - R5A  
DRAWING - 1A

HORIZONTAL SCALE - 1"=3'  
VERTICAL SCALE - 1"=60'



DETAIL A - NOT TO SCALE





Anker WV Mining Co. Inc.  
Sago Mine  
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Buckhannon, WV 26201  
Phone 304-473-1676  
MSHA I.D. 46-08791 WV ID U-  
2016-98B

January 8, 2006

Submittal # R-6

Anker West Virginia Mining Company, Sago Mine, is submitting for your review and prompt **approval to drill a 24 inch hole into Old 2 Left section** (previously sealed area), number 7 Entry, one block inby spad station 3748. (Refer to attached map # 1) The total depth drilled to the mine void is 260 ft. The outside atmosphere will be separated from the mine atmosphere by water being present at a depth of 255 ft.

(Refer to attached Drawing # 2)

**The following safety provisions for will be in place and reviewed with all immediate parties prior to commencing work.**

1. . The adjacent monitoring hole #4 will be monitored during the completion of the # 5 ,24 inch hole.
2. The Drill Rig will be shut down if methane is detected in excess of 1 % .Testing will be accomplished using hand held detectors and will continue to be done before, during and after casing installation work is being conducted.
3. A certified person will be present during pipe installation while (CASING THE Bore HOLE) to ensure that the above stated precautions are in place and adhered to. A certified person will conduct tests for CH<sub>4</sub>, CO & O<sub>2</sub> prior to and during and after the completion of installing the casing pipe in the bore hole. Fire extinguishers water & rock dust will be readily available at the drill site for fire fighting. **No cutting and welding will take place if CH<sub>4</sub> is detected in excess of 1 %.**
4. During cutting and welding operations (BELT SKIRTING) will be placed around the hole to prevent slag and embers from falling into the hole. Compressed air will be blown into the hole during cutting and welding via a 1 inch flexible line to facilitate ventilating the hole for a depth of 100 ft.
5. Upon completion of the work as stated above the work area will be monitored for CH<sub>4</sub> levels. The areas to be examined but not exclusively limited to will consist of the Drill Rig, Dog House, Cabs and any other place were a reasonable person would think that an accumulation could occur.
6. **All Safety provisions issued previously will continue to be in effect as an addition to this plan. Note:With the exception of the inert plug shown**

January 8, 2006

255 Rem

on Drawing # 2 .This provision will be replaced by water being confirmed at a depth of 269 ft in the # 5 Bore Hole. Allowing for the bit to be completely immersed and cooled by the water located in the drill column.

Sign Off:

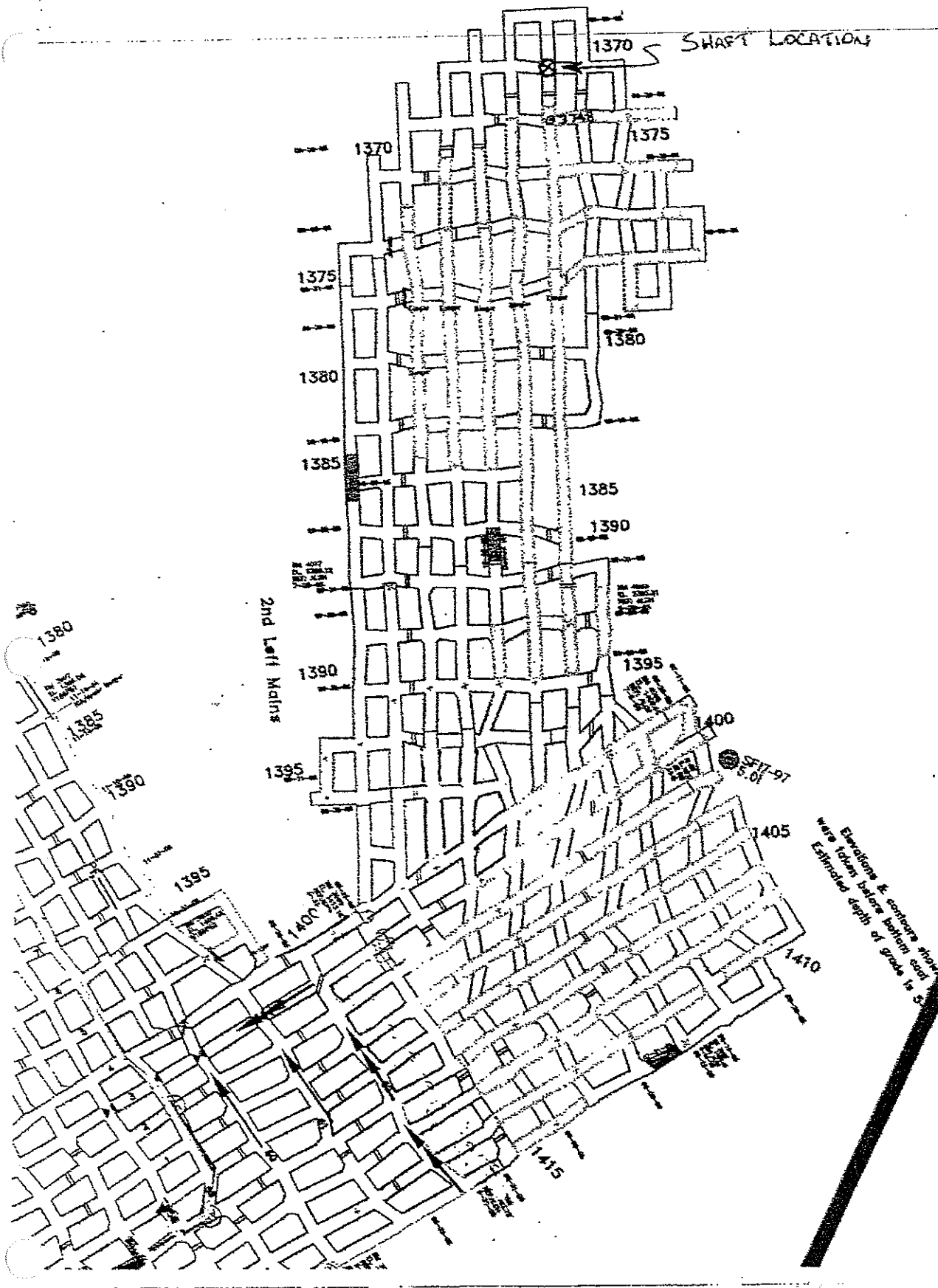
WVMHS&T Biv. Lindsey 1:03 am, 1-9-2006

MSHA Neils 7 Maki 1:03 A.M.

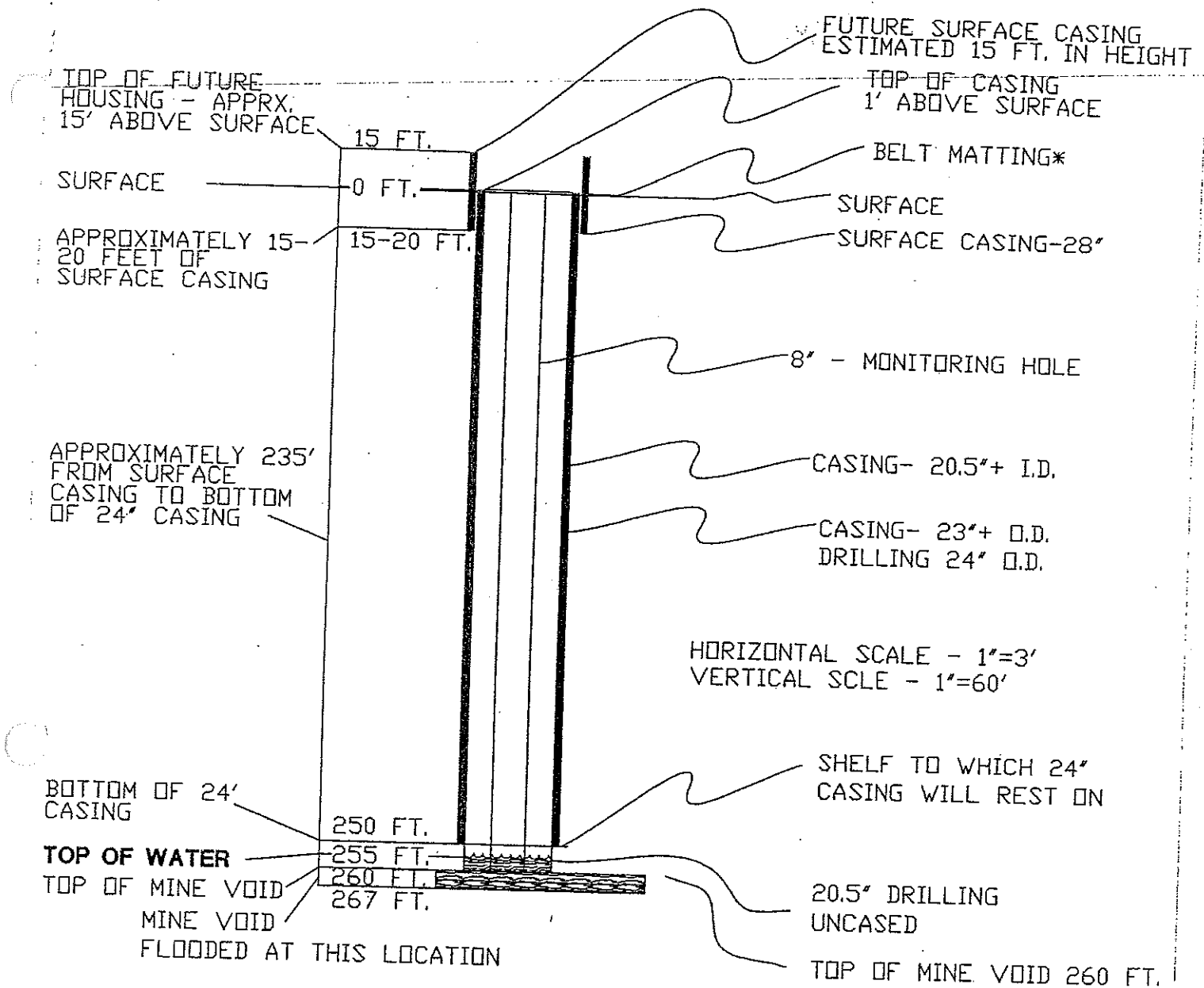
Company [Signature] Submittal  
Time: 12:35 AM 1-9-06

#1

ANKER WEST VIRGINIA MINING CO.  
SAGO MINE  
W-20K0988  
SCALE 1"=200'



# DRAWING - R6



WATER WILL BE PRESENT IN THE DRILL COLUMN PRIOR TO STARTING DRILLING FOR THE 24" HOLE.

\*- BELT MATTING WILL BE IN PLACE DURING THE ENTIRE WELDING/CUTTING PERIOD.

1. DRILL HOLE WILL BE VENTED DURING CASING INSTALLATION, VIA 1" FLEXIBLE LINE TO A DEPTH OF 100'.

Anker WV Mining Co. Inc.  
Sago Mine  
Rt. 9 Box 507  
Buckhannon, WV 26201  
Phone 304-473-1676  
MSHA I.D. 46-08791  
WV ID U-2016-98B

January 14, 2006

Submittal # R-7d

Phase 1

Anker West Virginia Mining Company, Sago Mine, is submitting for your review a "Recovery Plan" for the Sago Mine.

The following safety precautions and standards shall be maintained during the following procedures:

- a. A copy of the "Mine Rescue Recovery" map shall be posted at the command center.
- b. 100' scale work maps (**Phase Maps**) shall be provided in 8.5" x 11" size for the mine rescue team to use as work maps. These will be marked to correlate with the designated areas of the "Mine Rescue Recovery" map.
- c. Mine management (mine foreman, superintendent or company representative) familiar with mine shall be in the command center at all times during the exploration by the mine rescue.
- d. Bore holes 1, 2, 4, 5, and 6 will be continuously monitored during the process. The sample results will be communicated to the command center every twenty minutes. In the event the results warrant the removal of the mine rescue teams, they will be notified immediately.
- e. **Self Contained Breathing Apparatus will be used if atmospheric tests show less than 19.5 % Oxygen, Greater than 1 % Methane or more than 50 PPM Carbon Monoxide which constitutes an IRRESPIRABLE ATMOSPHERE .**
- f. If methane levels increase in excess of 0.5 % above the base line, not to exceed 1%, the power will be immediately disconnected to the mine. Note: An electrician will be assigned to immediately execute this action when deemed by the command center.
- g. If lightning is present in the area everyone will be removed from the mine until it has passed and not re-enter within 60 minutes after it has passed.

We respectfully request permission to:

**RECOVER THE MINE BY INCREMENTAL PHASES: (1 thru 5)**

**Objective: Advance Fresh Air Base from surface to Break # 39 on Belt # 4 by energizing pumps and inspecting and improving the integrity of ventilation controls.**

**Rail equipment and supplies will be moved up to fresh air base. Exploration will be done in 1,000 ft. increments.**

**PHASE 1**

- 1. Enter the mine and explore to the W-1 (Water Accumulation area) as indicated on Phase 1 recovery map. The dewatering pump will continue to pump.**
- 2. Evaluate the need for airway maintenance i.e.; Pump water**
- 3. Certified electrician will check pump(s) for permissibility prior to being energized.**
- 4. Pumps will be energized and water will be pumped as needed.**
  - Command center may request and approve to have a certified electrician enter the mine when warranted. This electrician must be retrained on the SCSR, have one at arms reach at all times; an additional one available to him, a member of the mine rescue team with him at all times, remain in communication with the fresh air base or command center.**
- 5. The air traveling over the permissible dewatering pump will be continuously monitored by a Mine Rescue Team Member while teams are inby. The return will be monitored by tech support & the results communicated every twenty minutes to the command center. Remote atmospheric checks will be conducted for levels and presence of methane, oxygen & carbon monoxide.**
- 6. Team will systematically advance exploring all accessible entries inby to the next water accumulation area and check the mine atmosphere for methane, oxygen & carbon monoxide while enroute. In addition, tests for ventilation, air quantity, quality and direction will be verified, noted and communicated to the surface command center at 1000 foot increments.**

January 14, 2006

7. Rail equipment will advance in fresh air inby once atmospheric checks for methane, carbon monoxide and oxygen are at acceptable levels. (Acceptable Levels = Less 1 % Methane, 19.5 % Oxygen or greater and less than 50 P.P.M. Carbon Monoxide).
8. Temporary ventilation controls will be systematically installed as indicated on the Phase 1 recovery map.
9. Communications will be established and maintained with the mine rescue teams and the surface command center via voice powered mine rescue phones, permissible radios and mine phones. Note: Mine phones MUST remain in fresh air.
10. This process will be repeated until locations are reached as stated in goals and objective statement.

Sign Off:

WV-MSHT Brian Mills Date: 1-14-06

MSHA Thomas C. Hannon Date: 1/14/06

Company M. T. G. Co. Date: 1-14-06  
3:34 pm

Anker WV Mining Co. Inc.  
Sago Mine  
Rt. (Box 507  
Buckhannon, WV 26201  
Phone 304-473-1676  
MSHA I.D. 46-08791 WV ID U-  
2016-98B

January 9, 2006

Submittal # R-7 (# 6 Borehole)

Anker West Virginia Mining Company, Sago Mine, is submitting for your review and prompt approval to drill a additional 6 inch hole (Hole # 6), that may be subsequently modified to a 24 inch hole .Note: P.V.C. piping will be used as the initial surface casing for the six inch hole , approximately 20 ft. in depth. Hole number 6 will be drilled into the Old 2 Left section (previously sealed area), number 8 Entry, located at spad station 1368 (Refer to attached map # 1 / HOLE # 6). The total target distance to drill will be approximately 299 ft.

This will allow for positive ventilation of this area therefore enhancing the effectiveness of removal of mine gases and other contaminants that could be detrimental to the safety of the mine.

The following safety provisions for all other provisions will apply as listed.

1. No persons will be in the mine.
2. No Cutting and or Welding will be done within 100 ft. of the bore hole .This hole will not be cased with metal casing . In the event casing is required P.V.C. plastic pipe will be used in lieu of so as to negate the need for welding and or cutting.
3. Upon hole through the bore hole will be monitored for CO, O2 & CH4 levels. No work will be conducted if methane levels are detected in excess of 1 %.Note: The Drill Rig will be shut down during this time .Periodic testing using hand held detectors for constituents as stated above will be conducted by certified person.
4. The mine atmosphere will be separated from that of the out side by an inert plug. ( Refer to the attached Drawing # 2) The inert plug will not be utilized if water is present in the drill column and can be verified by prudent engineering methods. (Refer to Drawing # 2 -a & # 2-b).
5. A certified person will be present during (When near the Bore Hole) to ensure that the above stated precautions are in place and adhered to. A certified person will conduct tests for CH4, CO & O2 prior to and during and after the completion of hole through into the mine void.

1:21 pm \*This statement is only applicable if utilizing the 24 inch bore hole. A.T.C.



January 9, 2006

6. Fire extinguishers water & rock dust will be readily available at the drill site for fire fighting.
7. Upon reaching the target depth of 298.8 ft. a monitoring probe will be installed and utilized for atmospheric sampling of the mine and water depth analysis. (Refer to Attached Drawing # 4).

Sign Off:

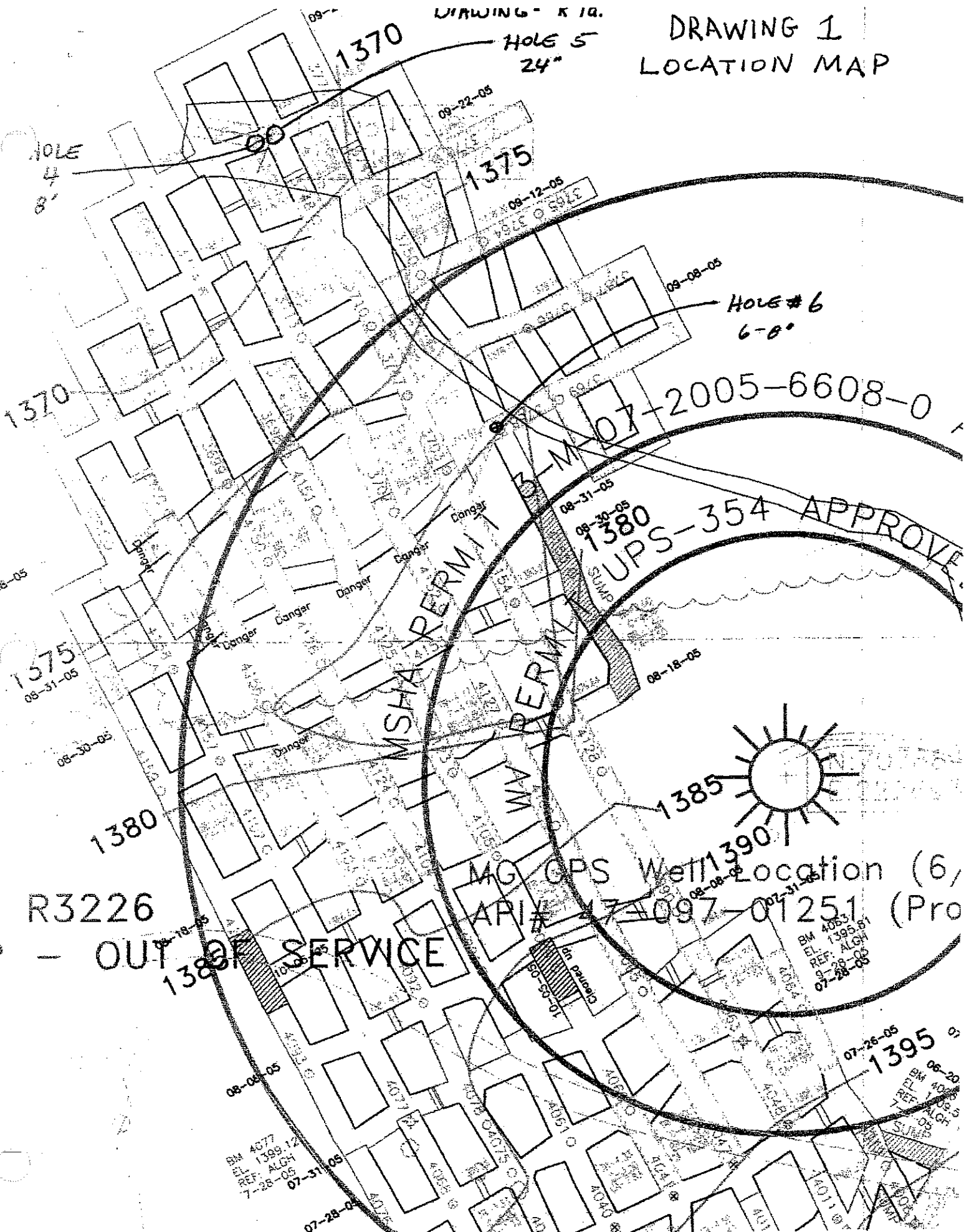
WVMHS&T David Barker 1-9-06

MSHA Kenneth W. Tenney 1-9-06 1330

Company MTG Co 1-9-06 Submittal  
Time: 12:40pm

DRAWING - K 10.

# DRAWING 1 LOCATION MAP



R3226

OUT OF SERVICE

MG OPS Well Location (6,  
API# 47-097-01251 (Pro

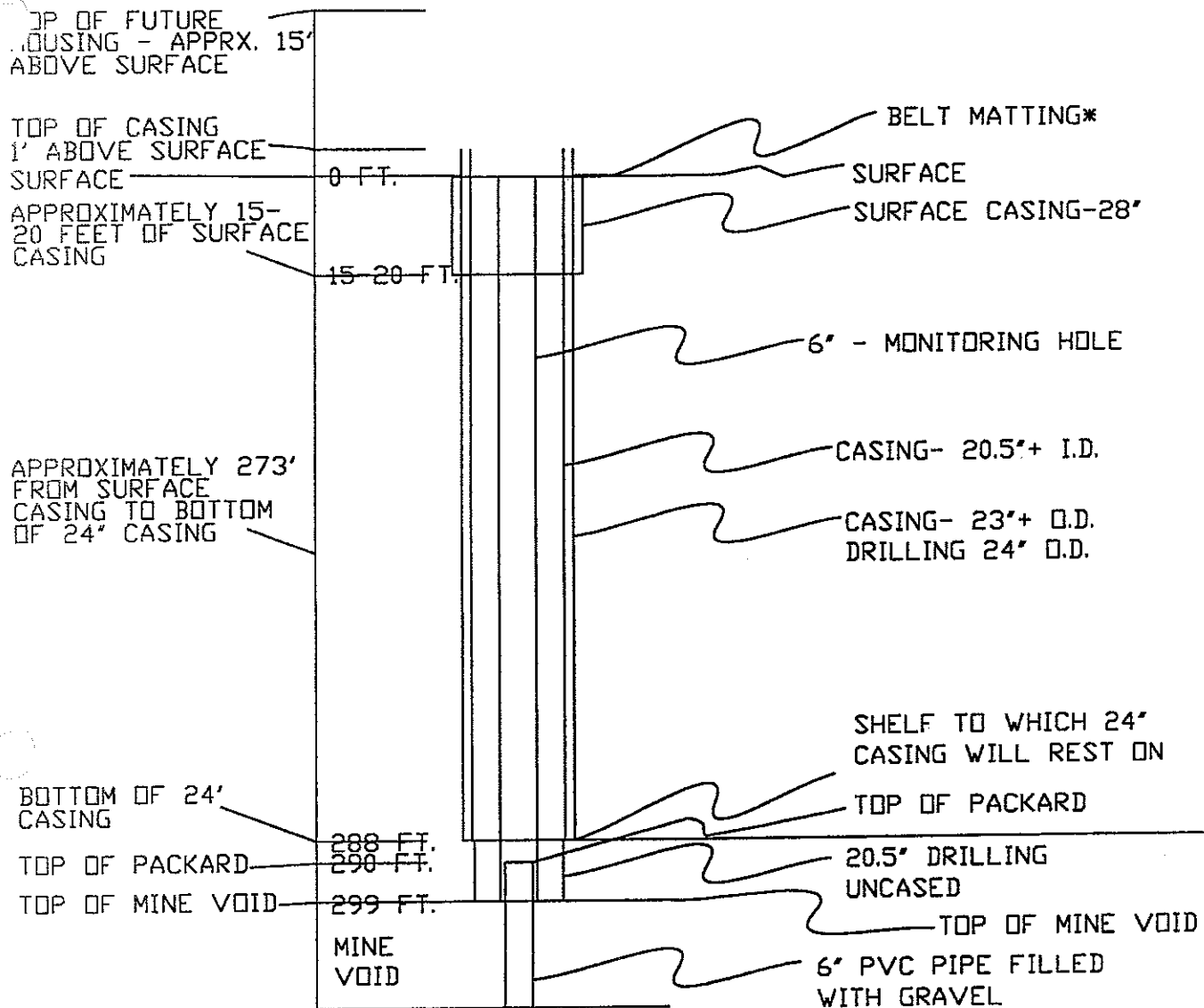
BM 4053  
EL. 1395.51  
REF. ALGH  
9-28-05  
07-28-05

07-26-05  
1395

BM 4077  
EL. 1399.12  
REF. ALGH  
7-28-05  
07-31-05

07-28-05

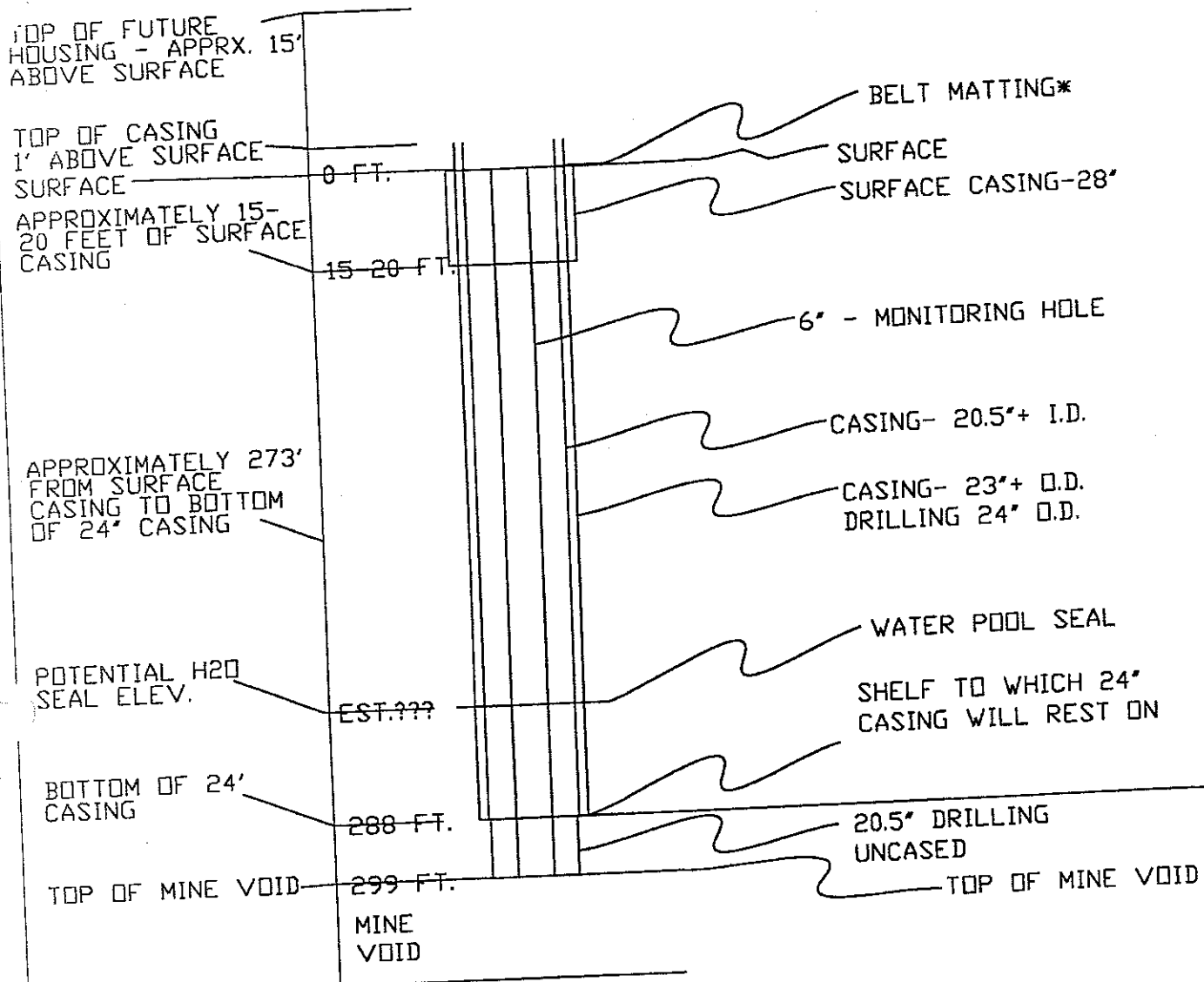
DRAWING - R7a.  
DRAWING No. 2 - INERT PLUG



THE PACKARD WILL BE IN PLACE PRIOR TO STARTING OF DRILLING FOR THE 24' HOLE  
 \*- BELT MATTING WILL BE IN PLACE DURING THE ENTIRE WELDING/CUTTING PERIOD.

1. DRILL SURFACE CASING.
2. DRILL 6' HOLE INTO MINE CAVITY.
3. INSTALL 4" PVC PIPE FILLED WITH GRAVEL (PACKARD).
4. INSTALL INERT MATERIAL - CEMENT/ROCK DUST ON TOP OF PACKARD.
5. START 24" DRILLING - DRILLING TO SHELF - APPROXIMATELY 10' ABOVE MINE VOID.
6. INSTALL ALL CASING TO SHELF AREA.
9. DRILL REMAINDER OF HOLE INTO MINE VOID  
20.5" DIAMETER WILL NOT BE CASED.

DRAWING - R7a.  
DRAWING No. 3 - WATER PLUG



THE PACKARD WILL BE IN PLACE PRIOR TO STARTING OF DRILLING FOR THE 24" HOLE  
\*- BELT MATTING WILL BE IN PLACE DURING THE ENTIRE WELDING/CUTTING PERIOD.

1. DRILL SURFACE CASING.
2. DRILL 6" HOLE INTO MINE CAVITY.
3. INSTALL 4" PVC PIPE FILLED WITH GRAVEL (PACKARD).
4. INSTALL INERT MATERIAL - CEMENT/ROCK DUST ON TOP OF PACKARD.
5. START 24" DRILLING - DRILLING TO SHELF - APPROXIMATELY 10' ABOVE MINE VOID.
6. INSTALL ALL CASING TO SHELF AREA.
9. DRILL REMAINDER OF HOLE INTO MINE VOID  
20.5" DIAMETER WILL NOT BE CASED.

*Copy For Review*

*Submitted at B. Sago Mine*

Anker WV Mining Co. Inc.  
Sago Mine  
Rt. (Box 507  
Buckhannon, WV 26201  
Phone 304-473-1676  
MSHA I.D. 46-08791 WV ID U-  
2016-98B

January 12, 2006

Submittal # R-8

Anker West Virginia Mining Company, Sago Mine, is submitting for your review a "Recovery Plan Outline" for the Sago Mine.

1. Dewater the number 5 Borehole using a mechanically driven turbine pump.

Note: All electrical circuits, motors & conduits will be located on the surface.

2. Area will be monitored for CO, CH<sub>4</sub>, and O<sub>2</sub> by a certified person prior to, before & during the pump installation process.

3. In the event cutting and welding will be necessary the following precautions will be in place.

A. No cutting and or Welding will be conducted if CH<sub>4</sub> is detected in excess of 1 %.

B. Fire extinguishers will be readily accessible.

C. All fabrication will be conducted as much as possible off site so as to minimize cutting and welding near the bore holes.

4. Monitor Boreholes #1, 2, 4, 5 & 6. For CH<sub>4</sub>, CO and O<sub>2</sub> levels.

5. Pump water.

*6. Pump Flange will be vented away from base.*  
*7. Power will be disconnected if CH<sub>4</sub> is in excess of 1%.*  
*Sign Off: at the electrical components.*  
*8. Electrical components will be examined 100% in accordance with state & Federal Law.*

WVMHS&T *Billy Tankersley 1-12-06 9:15pm*

MSHA

*William R. Spruill 12 JAN 06 2:115*

Company

Time

*WV Mining Co. 1-12-06*

Submittal

1370

HOLE 5  
24"

1375

HOLE #6  
6-8"

07-2005-6608-0 AF

1380

UPS-354 APPROVED

1385

1390

Location (6/C  
17-097-01251 (Prod

26

OUT OF SERVICE

1395

07-28-05 07-11-0

Anker WV Mining Co. Inc.  
Sago Mine  
Rt. (Box 507  
Buckhannon, WV 26201  
Phone 304-473-1676  
MSHA I.D. 46-08791 WV ID U-  
2016-98B

*Submitted at 8:30pm  
1-12-06*

January 12, 2006

Submittal # R-9

Anker West Virginia Mining Company, Sago Mine, is submitting for your review and prompt approval to re-drill for the purposes of cleaning a 6 inch P.V.C. cased bore hole into the Old 2 Left section (previously sealed area), number 7 Entry, one block inby spad station 3748. (Refer to attached map # 1) The total target distance to drill and or clean will be no greater than 260 ft. This will allow for positive ventilation of this area therefore enhancing the effectiveness of removal of mine gases and other contaminants that could be detrimental to the safety of the mine.

The following safety provisions for will be in place prior to commencing work.

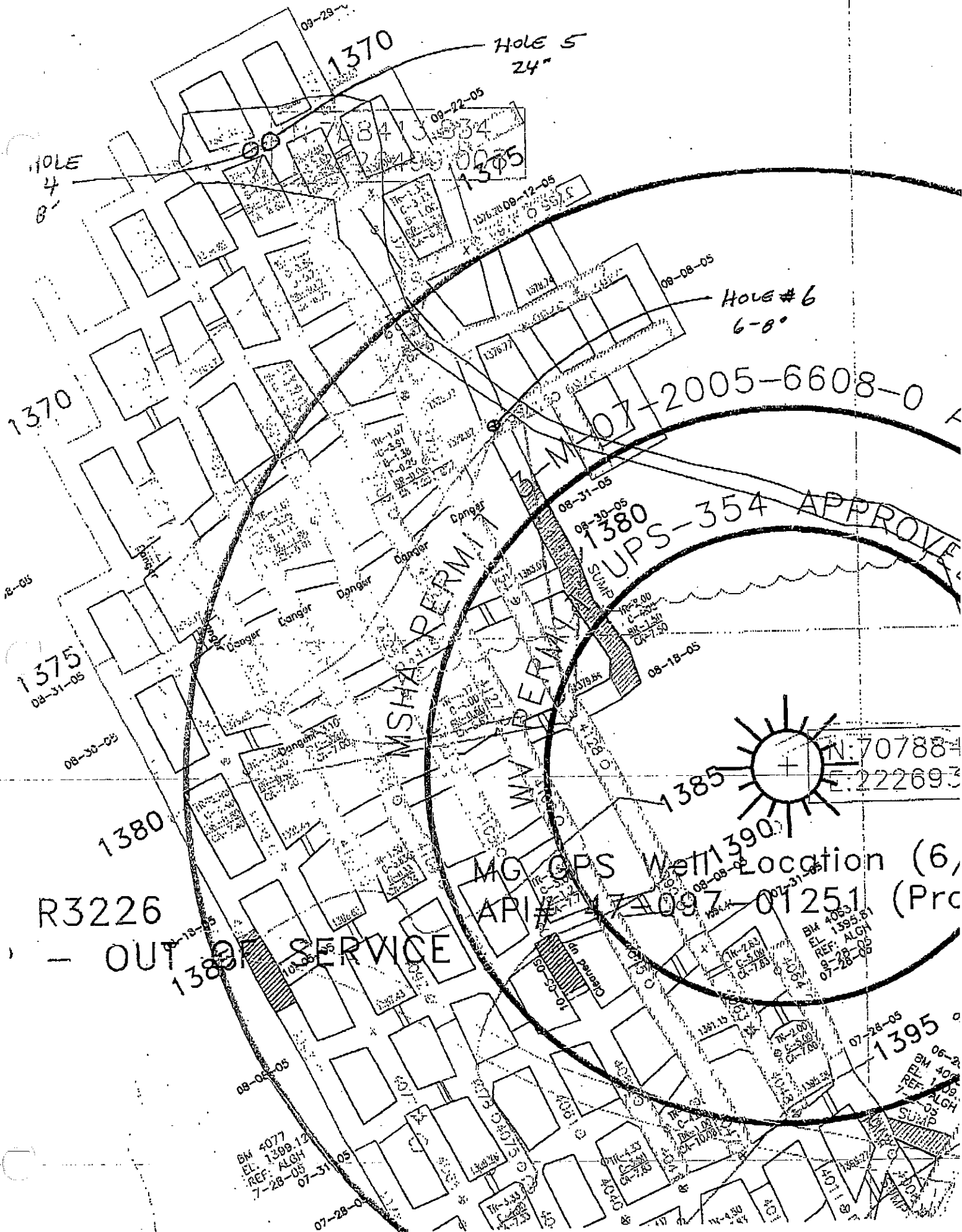
1. No persons will be in the mine.
2. Upon hole through the bore hole will be monitored for CO, O2 & CH4 levels. No cutting and welding will be conducted .NO work will be conducted if CH4 is detected 1 % or above.
3. The Drill Rig will be shut down during this time .Testing using hand held detectors will be done before resuming work .
4. Tests for mine gases will be conducted prior to commencing work .Fire extinguishers water & rock dust will be readily available at the drill site for fire fighting.

Sign Off:

WVMHS&T *Billy Trumbull 1-12-06 9:15pm*

MSHA *William R. Spurr 12 JAN 06 3:15*

Company *W. V. Co. 1-12-06* Submittal  
Time: \_\_\_\_\_





Anker WV Mining Co. Inc.  
Sago Mine  
Rt. (Box 507  
Buckhannon, WV 26201  
Phone 304-473-1676  
MSHA I.D. 46-08791 WV ID U-  
2016-98B

January 14, 2006

Submittal # R-10

Anker West Virginia Mining Company, Sago Mine, is submitting for your review and prompt approval to drill a 14 inch hole (**HOLE # 7**) into the Old 2 Left section (previously sealed area), number 7 Entry, one block inby spad station 3748 plus 15 feet from hole # 5. (Refer to attached map # 1) The total depth drilled to the mine void is 260 ft. This will allow for the dewatering of the area.

**The following safety provisions for will be in place and reviewed with all immediate parties prior to commencing work.**

1. No open flames, smoking articles or cutting and welding will be allowed near the bore hole without testing for CH<sub>4</sub>, CO and O<sub>2</sub> by a certified foreman. No work or cutting and or welding will be conducted if CH<sub>4</sub> levels is detected 1 % or greater, CO 50 PPM or O<sub>2</sub> less than 19.5 %. The Drill Rig will shut down & work will cease while these conditions exist.

**Note: Prior to cutting and welding once the target depth has been reached the hole will be checked to ensure that water is in the borehole.**

2. The Drill Rig will continue to be shut down if methane is detected in excess of 1 %. Testing will be accomplished using hand held detectors and will continue to be done before, during and after plumbing work is being done. *Test will be conducted every 20 minutes*
3. This hole will not be cased except for the surface steel casing of 15 ft. to 20 ft. Fire extinguishers water & rock dust will be readily available at the drill site for fire fighting.
4. Upon completion of the work as stated above the work area will be monitored for CH<sub>4</sub> levels. The areas to be examined but not exclusively limited to will consist of the Drill Rig, Dog House, Cabs and any other place were a reasonable person would think that an accumulation could occur. Once this examination has been conducted and CH<sub>4</sub> has been verified to be less than 1% then drilling operations and or work may resume.
5. All Safety provisions listed will be in effect as stated in this plan.
6. The plumbing atop the # 7 Borehole will be modified to allow for affixing a turbine deep well pump. All electrical components will be located on the surface. The electrical installation will be examined by a certified

January 14, 2006

electrician prior to being put into service and logged into the electrical book. The pump will be ventilated by an auxiliary ventilation fan located on the surface.

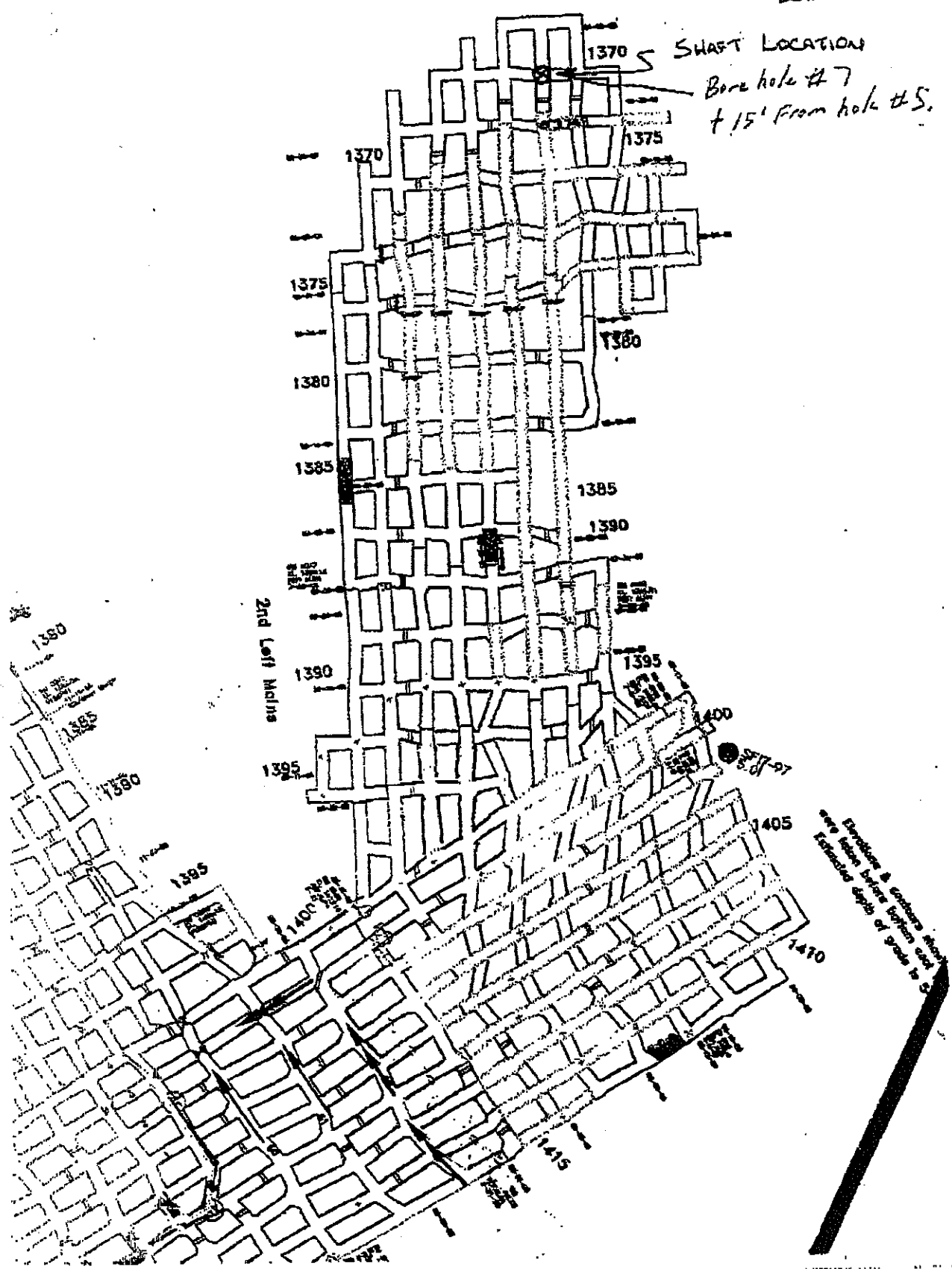
Sign Off:

WVMHS&T David Berlan

MSHA William R. Spru 14 JAN 06 1725

Company W. T. Co 1-14-06 Submittal  
Time: 4:10 pm

SAGO MINE  
U-20K0988  
SCALE 1" = 200'



Anker WV Mining Co. Inc.  
Sago Mine  
Rt. (Box 507  
Buckhannon, WV 26201  
Phone 304-473-1676  
MSHA I.D. 46-08791 WV ID U-  
2016-98B

State File

January 17, 2006

Submittal # R-10a

Anker West Virginia Mining Company, Sago Mine, is submitting for your review and prompt approval to drill a **16 inch hole (HOLE # 7)** into the Old 2 Left section (previously sealed area), number 7 Entry, one block inby spad station 3748 plus 15 feet from hole # 5. (Refer to attached map # 1) The total depth drilled to the mine void is 260 ft. This will allow for the dewatering of the area.

**The following safety provisions for will be in place and reviewed with all immediate parties prior to commencing work.**

1. No open flames, smoking articles or cutting and welding will be allowed near the bore hole without testing for CH<sub>4</sub>, CO and O<sub>2</sub> by a certified foreman. No work or cutting and or welding will be conducted if CH<sub>4</sub> levels is detected 1 % or greater, CO 50 PPM or O<sub>2</sub> less than 19.5 %. The Drill Rig will shut down & work will cease while these conditions exist.

**Note: Prior to cutting and welding once the target depth has been reached the hole will be checked to ensure that water is in the borehole.**

2. The Drill Rig will continue to be shut down if methane is detected in excess of 1 %. Testing will be accomplished using hand held detectors and will continue to be done before, during and after plumbing work is being done. **Methane checks will be conducted prior to drilling & every twenty minutes thereafter.** *All persons making methane checks shall be properly trained & certified in gas testing.* properly  
EL7

3. This hole will be **cased with 16 inch steel casing** for the length of the bored hole. Fire extinguishers water & rock dust will be readily available at the drill site for fire fighting.


4. Upon completion of the work as stated above the work area will be monitored for CH<sub>4</sub> levels. The areas to be examined but not exclusively limited to will consist of the Drill Rig, Dog House, Cabs and any other place where a reasonable person would think that an accumulation could occur. Once this examination has been conducted and CH<sub>4</sub> has been verified to be less than 1% then drilling operations and or work may resume.

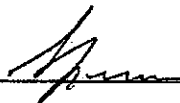
5. **All Safety provisions listed will be in effect as stated in this plan.**

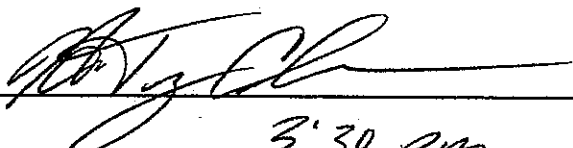
January 17, 2006

6. The plumbing atop the # 7 Borehole will be modified to allow for affixing a turbine deep well pump. All electrical components will be located on the surface. The electrical installation will be examined by a certified electrician prior to being put into service and logged into the electrical book. The pump will be ventilated by an auxiliary ventilation fan located on the surface.

Sign Off:

WVMHS&T 

MSHA William R.  17 JAN 06 1554

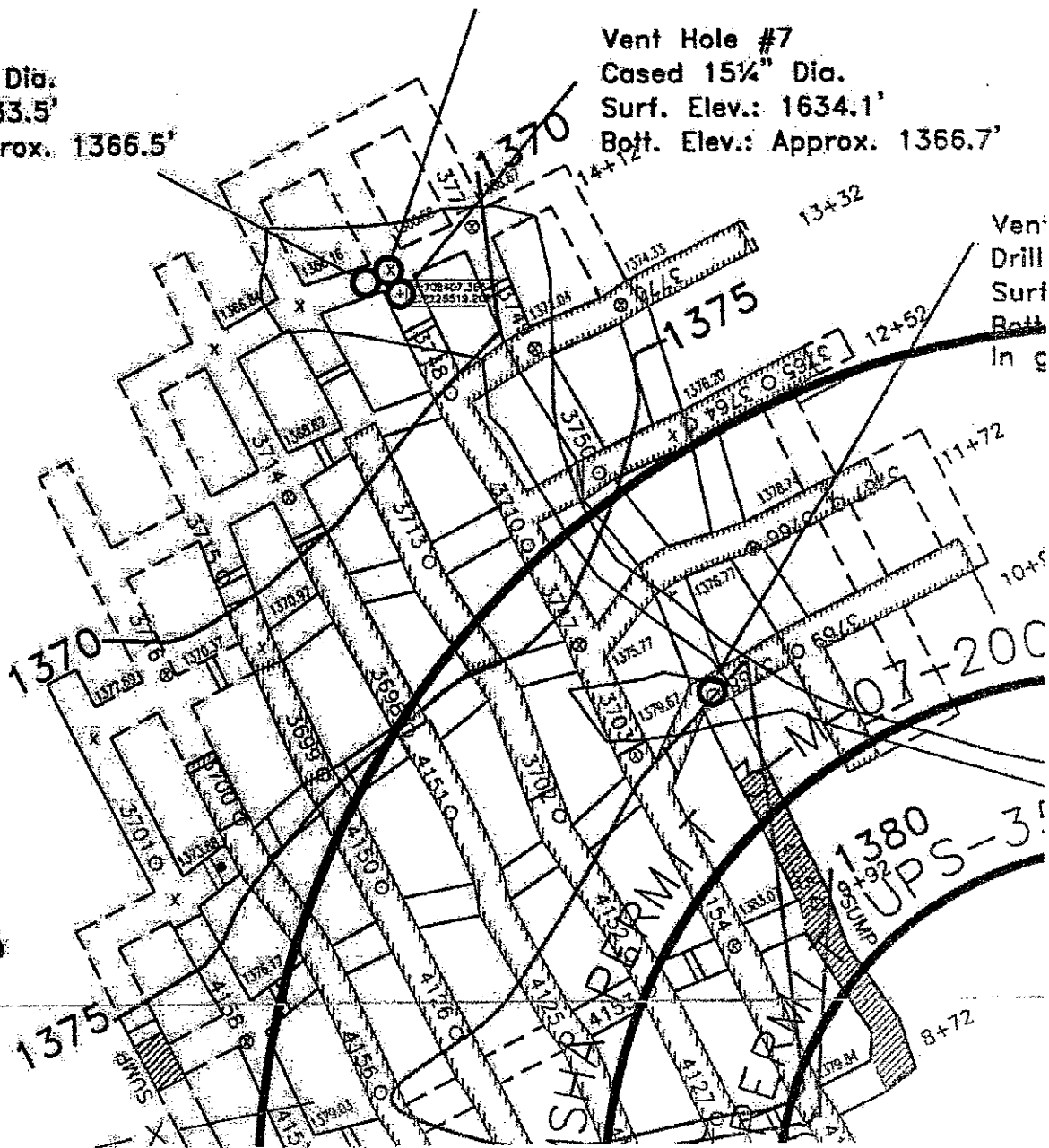
Company  1-17-06 Submittal  
Time: 3:30 pm

Vent Hole #4  
Drilled 8 7/8" Dia.  
Surf. Elev.: 1633.5'  
Bott. Elev.: Approx. 1366.5'

Vent Hole #7  
Cased 15½" Dia.  
Surf. Elev.: 1634.1'  
Bott. Elev.: Approx. 1366.7'

Vent  
Drill  
Surf  
~~Boat~~  
In c

2nd Left Mains



Anker WV Mining Co. Inc.  
Sago Mine  
Rt. (Box 507  
Buckhannon, WV 26201  
Phone 304-473-1676  
MSHA I.D. 46-08791 WV ID U-  
2016-98B

January 18, 2006

Submittal # R-11

Anker West Virginia Mining Company, Sago Mine, is submitting for your review and prompt approval to ventilate the # 4 bore hole using a compressed airline to dilute and render harmless the methane gas, ~~that is currently being vented to non-explosive limits.~~

The following safety provisions for (work) will be in place prior to commencing work.

1. No work, cutting, welding and or open flames will be allowed within a 200 ft radius while this is being done.
2. Tests for mine gases CH<sub>4</sub>, O<sub>2</sub> & CO will be conducted prior to and during work of affixing the ventilation tubing down hole # 4. i.e.; compressor line.
3. A certified person will be present during this operation of affixing the ventilation tubing down the hole via two joints of pipe.
4. The Bore Hole will be ventilated by (Blowing Compressed Air into the hole via the 1 inch flexible hose.) This will deliver approximately 2,000 cfm of air into the 8 inch hole. This will be done continuously during drilling operations and support work so as to dilute and render harmless noxious and or explosive gasses.
5. The discharge end of the pipe will be flagged off so as to deter persons from approaching.

Sign Off:

WVMHS&T Benny J. [Signature] 28 ) <sup>42</sup> PM 1/18/06

MSHA

James A. [Signature] 1340 1/18/06

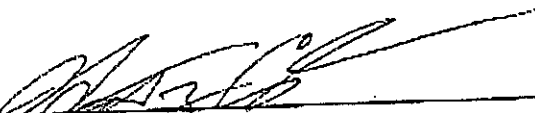
January 18, 2006

• Page 2

Company

Time: —

Submittal

  
1-18-06 12:40 pm



Anker WV Mining Co. Inc.  
Sago Mine  
Rt. (Box 507  
Buckhannon, WV 26201  
Phone 304-473-1676  
MSHA I.D. 46-08791 WV ID U-  
2016-98B

January 19, 2006

Submittal # R-12

Anker West Virginia Mining Company, Sago Mine, is submitting for your review and prompt approval to convert the Number 4 Borehole that is currently being used for monitoring purposes to that of ventilation purpose. The sampling pipes and tubing will be removed in order to maximize the area available for increased air flow.

Refer to attached map (Drawing number 1)

The following safety provisions for will be in place and reviewed with all immediate parties prior to commencing work.

1. No open flames, smoking articles or cutting and welding will be allowed near the bore hole and or its point of discharge for a minimum radius of 100 feet, while checking ventilation readings. The Drill Rig will shut down while the sampling pipe is being removed.
2. The Drill Rig will continue to be shut down if methane is detected in excess of 1 % during this time. Testing will be accomplished using hand held detectors and will continue to be done before, during and after plumbing work is being done.
3. A certified person will be present during removal of the sampling pipe to ensure that the above stated precautions are in place and adhered to. A certified person will conduct tests for CH<sub>4</sub>, CO & O<sub>2</sub> prior to and during and after the completion pipe removal from the bore hole. In the event methane is detected of 1 % or more the hole will be sealed. Fire extinguishers water & rock dust will be readily available at the drill site for fire fighting.
4. Upon completion of the work as stated above the work area will be monitored for CH<sub>4</sub> levels. The areas to be examined but not exclusively limited to will consist of the Drill Rig, Dog House, Cabs and any other place were a reasonable person would think that an accumulation could occur. Once this examination has been conducted and Ch<sub>4</sub> has been verified to be less than 1% then drilling operations and or work may resume.
5. All Safety provisions issued previously will continue to be in effect as an addition to this plan.

● Page 2

January 19, 2006

Sign Off:

WWMHS&T

John Art 1291-19-06 SPN

MSHA

William P. [Signature] 19 JAN 06 1700

Company

[Signature] 1-19-07

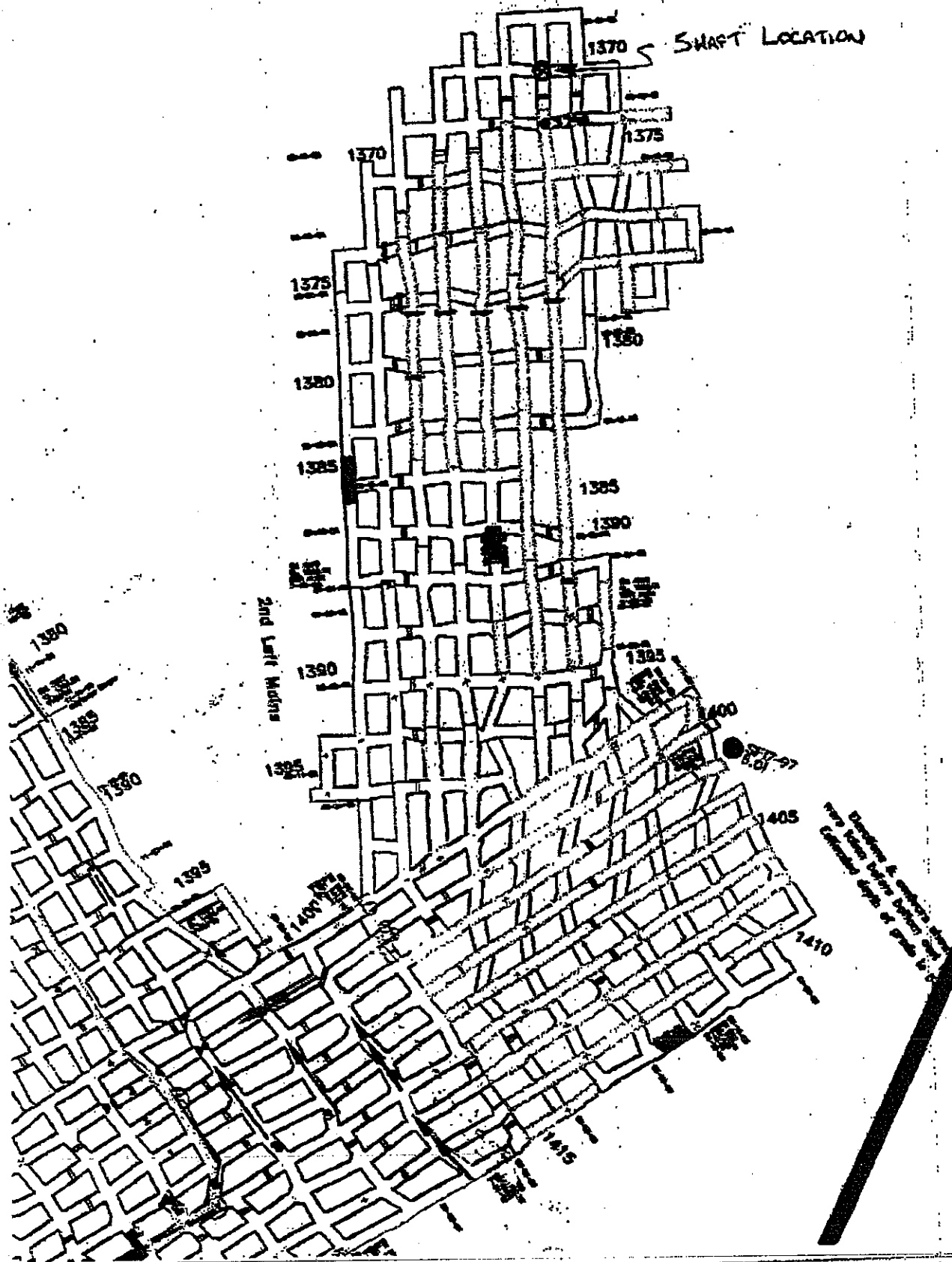
Submittal

Time: \_\_\_\_\_

12:30pm

SAGO MINE  
U-20K0988  
SCALE 1"=200'

SHAFT LOCATION



Anker WV Mining Co. Inc.  
Sago Mine  
Rt. 9 Box 507  
Buckhannon, WV 26201  
Phone 304-473-1676  
MSHA I.D. 46-08791  
WV ID U-2016-98B

January 20, 2006

Submittal # R-7e

Phase 1

Anker West Virginia Mining Company, Sago Mine, is submitting for your review a "Recovery Plan" for the Sago Mine.

The following safety precautions and standards shall be maintained during the following procedures:

- a. A copy of the "Mine Rescue Recovery" map shall be posted at the command center.
- b. 100' scale work maps (**Phase Maps**) shall be provided in 8.5" x 11" size for the mine rescue team to use as work maps. These will be marked to correlate with the designated areas of the "Mine Rescue Recovery" map.
- c. Mine management (mine foreman, superintendent or company representative) familiar with mine shall be in the command center at all times during the exploration by the mine rescue.
- d) Bore holes 1, 2, 4, 5, and 6 will be continuously monitored during the process. The sample results will be communicated to the command center every twenty minutes. In the event the results warrant the removal of the mine rescue teams, they will be notified immediately.
- e. **Self Contained Breathing Apparatus will be used if atmospheric tests show less than 19.5 % Oxygen, Greater than 1 % Methane or more than 50 PPM Carbon Monoxide which constitutes an IRRESPIRABLE ATMOSPHERE .**
- f. If methane levels increase in excess of 0.5 % above the base line, not to exceed 1%, the power will be immediately disconnected to the mine. Note: An electrician will be assigned to immediately execute this action when deemed by the command center.
- g. If lightning is present in the area everyone will be removed from the mine until it has passed and not re-enter within 60 minutes after it has passed.

We respectfully request permission to:

**RECOVER THE MINE BY INCREMENTAL PHASES: (1 thru 5)**

**Objective: Advance Fresh Air Base from surface to Break # 39 on Belt # 4 by energizing pumps and inspecting and improving the integrity of ventilation controls.**

**Rail equipment and supplies will be moved up to fresh air base. Exploration will be done in 1,000 ft. increments.**

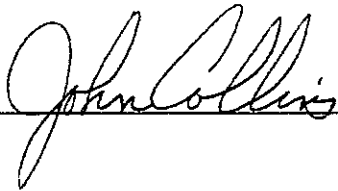
**PHASE 1**

- 1. Enter the mine and explore to the W-1 (Water Accumulation area) as indicated on Phase 1 recovery map. The dewatering pump will continue to pump.**
- 2. Evaluate the need for airway maintenance i.e.; Pump water**
- 3. Certified electrician will check pump(s) for permissibility prior to being energized.**
- 4. Pumps will be energized and water will be pumped as needed.**
  - Command center may request and approve to have a certified electrician enter the mine when warranted. This electrician must be retrained on the SCSR, have one at arms reach at all times; an additional one available to him, a member of the mine rescue team with him at all times, remain in communication with the fresh air base or command center.**
  - The SCSR will be used for escape purposes only ,**
  - The atmosphere constituents levels in the return will be stable prior to entering return ,**
  - No ventilation changes will be made while the electrician is in the return.**
- 5. The air traveling over the permissible dewatering pump will be continuously monitored by a Mine Rescue Team Member while teams are inby. The return will be monitored by tech support & the results communicated every twenty minutes to the command center. Remote atmospheric checks will be conducted for levels and presence of methane, oxygen & carbon monoxide.**

6. Team will systematically advance exploring all accessible entries inby to the next water accumulation area and check the mine atmosphere for methane, oxygen & carbon monoxide while enroute. In addition, tests for ventilation, air quantity, quality and direction will be verified, noted and communicated to the surface command center at 1000 foot increments.
7. Rail equipment will advance in fresh air inby once atmospheric checks for methane, carbon monoxide and oxygen are at acceptable levels. (Acceptable Levels = Less 1 % Methane, 19.5 % Oxygen or greater and less than 50 P.P.M. Carbon Monoxide).
8. Temporary ventilation controls will be systematically installed as indicated on the Phase 1 recovery map.
9. Communications will be established and maintained with the mine rescue teams and the surface command center via voice powered mine rescue phones, permissible radios and mine phones. Note: Mine phones MUST remain in fresh air.
10. This process will be repeated until locations are reached as stated in goals and objective statement.

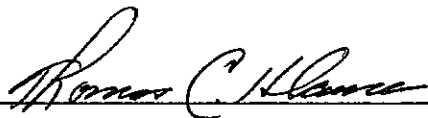
Sign Off:

WV-MSHT



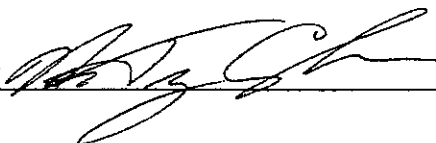
Date: 1-20-06

MSHA



Date: 1/20/06

Company



Date: 1-20-06

Anker WV Mining Co. Inc.  
Sago Mine  
Rt. (Box 507)  
Buckhannon, WV 26201  
Phone 304-473-1676  
MSHA I.D. 46-08791  
WV ID U-2016-98B

January 20, 2006

Submittal # R-7d  
Phase 2

Anker West Virginia Mining Company, Sago Mine, is submitting for your review a "Recovery Plan" for the Sago Mine.

The following safety precautions and standards shall be maintained during the following procedures:

- a. A copy of the "Mine Rescue Recovery" map shall be posted at the command center.
- b. 100' scale work maps (**Phase Maps**) shall be provided in 8.5" x 11" size for the mine rescue team to use as work maps. These will be marked to correlate with the designated areas of the "Mine Rescue Recovery" map.
- c. Mine management (mine foreman, superintendent or company representative) familiar with mine shall be in the command center at all times during the exploration by the mine rescue.
- d. Bore holes 1, 2, 4, 5, and 6 will be continuously monitored during the process. The sample results will be communicated to the command center every twenty minutes. In the event the results warrant the removal of the mine rescue teams, they will be notified immediately.
- e. **Self Contained Breathing Apparatus will be used if atmospheric tests show less than 19.5 % Oxygen, Greater than 1 % Methane or more than 50 PPM Carbon Monoxide which constitutes an IRRESPIRABLE ATMOSPHERE .**
- f. If methane levels increase in excess of 0.5 % above the base line, not to exceed 1%, the power will be immediately disconnected to the mine. Note: An electrician will be assigned to immediately execute this action when deemed by the command center.
- g. If lightning is present in the area everyone will be removed from the mine until it has passed and not re-enter within 60 minutes after it has passed.

We respectfully request permission to:-

**RECOVER THE MINE BY INCREMENTAL PHASES: (1 thru 5)**

**Objective: Advance from Break # 39 block, #4 belt to block # 52 by energizing pumps and inspecting and improving the integrity of ventilation controls.**

**Rail equipment and supplies will be moved up to fresh air base. Exploration will be done in 1,000 ft. increments.**

**PHASE 2**

- 1. Advance to 39 block at #4 belt and explore to the W-6 (Water Accumulation area) as indicated on Phase 2 recovery map.**
- 2. Evaluate the need for airway maintenance i.e.; Pump water**
- 3. Certified electrician will check pump for permissibility prior to being energized. Once ventilation has been established and certified electrician will check pump for permissibility prior to energizing.**
- 4. Pumps will be energized and water will be pumped as needed.**
  - a. Command center may request and approve to have a certified electrician enter the mine when warranted. This electrician must be retrained on the SCSR, have one at arms reach at all times; an additional one available to him, a member of the mine rescue team with him at all times, remain in communication with the fresh air base or command center.**
  - b. The SCSR will be used for escape purposes only**
  - c. The atmosphere constituents levels in the return will be stable prior to entering return**
  - d. No ventilation changes will be made while the electrician is in the return.**
- 5. Atmospheric checks will be conducted for levels and presence of methane, oxygen & carbon monoxide.**
- 6. The air traveling over the permissible dewatering pump will be continuously monitored by a Mine Rescue Team Member while teams are inby. The return will be monitored & the results**



● Page 3

January 20, 2006

- communicated every twenty minutes to the command center. Remote atmospheric checks will be conducted for levels and presence of methane, oxygen & carbon monoxide.
7. Team will systematically advance exploring all accessible entries inby to the next water accumulation area and check the mine atmosphere for methane, oxygen & carbon monoxide while enroute. In addition, tests for ventilation, air quantity, quality and direction will be verified, noted and communicated to the surface command center at 1,000 foot increments.
  8. Rail equipment will advance in fresh air inby once atmospheric checks for methane, carbon monoxide and oxygen are at acceptable levels. (Acceptable Levels = Less 1 % methane, 19.5 % Oxygen or greater and less than 50 P.P.M. Carbon monoxide).
  9. Temporary ventilation controls will be systematically installed as indicated on the Phase 2 recovery map.
  10. Communications will be established and maintained with the mine rescue teams and the surface command centre via voice powered mine rescue phones, permissible radios and mine phones. Note: Mine phones MUST remain in fresh air.
  11. This process will be repeated until locations are reached as stated in goals and objective statement.
  12. Upon completion of phase a monitoring point will be established at or near block 48 on the #4 belt in #3 heading.

NOTE: Monitoring of points located break 48 on #4 belt in #3 heading will be done utilizing "Tygon" tubing, pump, and monitor

Sign Off

WV-MSHT

John Collins 1-20-06

MSHA

Thomas C. Blane 1/20/06

Company

Anthony A. [Signature] 1-20-06  
9:55 AM

⑤

Anker WV Mining Co. Inc.  
Sago Mine  
Rt. (Box 507)  
Buckhannon, WV 26201  
Phone 304-473-1676  
MSHA I.D. 46-08791  
WV ID U-2016-98B

January 20, 2006

Submittal # R-7d  
Phase 3

Anker West Virginia Mining Company, Sago Mine, is submitting for your review a "Recovery Plan" for the Sago Mine.

The following safety precautions and standards shall be maintained during the following procedures:

- a. A copy of the "Mine Rescue Recovery" map shall be posted at the command center.
- b. 100' scale work maps (**Phase Maps**) shall be provided in 8.5" x 11" size for the mine rescue team to use as work maps. These will be marked to correlate with the designated areas of the "Mine Rescue Recovery" map.
- c. Mine management (mine foreman, superintendent or company representative) familiar with mine shall be in the command center at all times during the exploration by the mine rescue.
- d. Bore holes 1, 2, 4, 5, and 6 will be continuously monitored during the process. The sample results will be communicated to the command center every twenty minutes. In the event the results warrant the removal of the mine rescue teams, they will be notified immediately.
- e. **Self Contained Breathing Apparatus will be used if atmospheric tests show less than 19.5 % Oxygen, Greater than 1 % Methane or more than 50 PPM Carbon Monoxide which constitutes an IRRESPIRABLE ATMOSPHERE .**
- f. If methane levels increase in excess of 0.5 % above the base line, not to exceed 1%, the power will be immediately disconnected to the mine. Note: An electrician will be assigned to immediately execute this action when deemed by the command center.
- g. If lightning is present in the area everyone will be removed from the mine until it has passed and not re-enter within 60 minutes after it has passed.

We respectfully request permission to:-

**RECOVER THE MINE BY INCREMENTAL PHASES: (1 thru 5)**

**Objective:** Advance Fresh Air Base from Break # 52 on #4 Belt to 1<sup>st</sup> Left in 1,000 ft. increments. Including 1<sup>st</sup> Left to 20 Block to A-1 face . Followed by exploration to 20 block to 26 Block & to A-2 Face, then complete exploration to faces of 1 Left. By energizing pumps and inspecting and improving the integrity of ventilation controls.

Rail equipment and supplies will be moved up to fresh air base. Exploration will be done in 1,000 ft. increments.

**PHASE 3**

1. Starting at 52 break of #4 Belt and explore 1 Left to the next (Water Accumulation area) as indicated on Phase 3 recovery map.
2. Evaluate the need for airway maintenance i.e.; Pump water
3. Certified electrician will check pump for permissibility prior to being energized. Once ventilation has been established and certified electrician will check pump for permissibility prior to energizing.
4. Atmospheric checks will be conducted for levels and presence of methane, oxygen & carbon monoxide. Maintain monitoring point previously installed on Phase 2 until Fresh Air Base is established.
5. Pumps will be energized and water will be pumped as needed.
  - a. Command center may request and approve to have a certified electrician enter the mine when warranted. This electrician must be retrained on the SCSR, have one at arms reach at all times; an additional one available to him, a member of the mine rescue team with him at all times, remain in communication with the fresh air base or command center.
  - b. The SCSR will be used for escape purposes only
  - c. The atmosphere constituents levels in the return will be stable prior to entering return
  - d. No ventilation changes will be made while the electrician is in the return.
6. The air traveling over the permissible dewatering pump will be continuously monitored by a Mine Rescue Team Member while teams are inby. The return will be monitored & the results

January 20, 2006

● Page 3

communicated every twenty minutes to the command center. Remote atmospheric checks will be conducted for levels and presence of methane, oxygen & carbon monoxide.

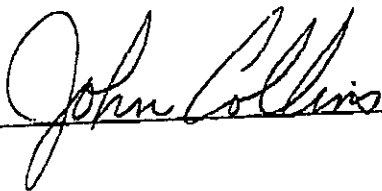
7. Team will systematically advance exploring all accessible entries inby to the next water accumulation area and check the mine atmosphere for methane, oxygen & carbon monoxide while enroute. In addition, tests for ventilation, air quantity, quality and direction will be verified, noted and communicated to the surface command center at 1,000 foot increments.

Note: #2 Borehole located at #31 break in #5 entry will have it's location identified and persons will be instructed to stay clear of that area.

8. Rail equipment will advance in fresh air inby once atmospheric checks for methane, carbon monoxide and oxygen are at acceptable levels. (Acceptable Levels = Less 1 % methane, 19.5 % Oxygen or greater and less than 50 P.P.M. Carbon monoxide).
9. Temporary ventilation controls will be systematically installed as indicated on the Phase 3 recovery map.
10. Communications will be established and maintained with the mine rescue teams and the surface command centre via voice powered mine rescue phones, permissible radios and mine phones. Note: Mine phones MUST remain in fresh air.
11. This process will be repeated until locations are reached as stated in goals and objective statement.

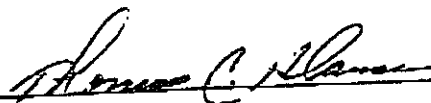
Sign Off

WV-MSHT



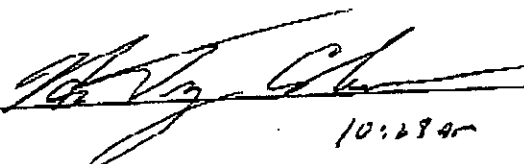
1-20-06

MSHA



1/20/06

Company



1-20-06

10:29 am

(3)

Anker WV Mining Co. Inc.  
Sago Mine  
Rt. (Box 507)  
Buckhannon, WV 26201  
Phone 304-473-1676  
MSHA I.D. 46-08791  
WV ID U-2016-98B

January 20, 2006

Submittal # R-7d  
Phase 4

Anker West Virginia Mining Company, Sago Mine, is submitting for your review a "Recovery Plan" for the Sago Mine.

The following safety precautions and standards shall be maintained during the following procedures:

- a. A copy of the "Mine Rescue Recovery" map shall be posted at the command center.
- b. 100' scale work maps (**Phase Maps**) shall be provided in 8.5" x 11" size for the mine rescue team to use as work maps. These will be marked to correlate with the designated areas of the "Mine Rescue Recovery" map.
- c. Mine management (mine foreman, superintendent or company representative) familiar with mine shall be in the command center at all times during the exploration by the mine rescue.
- d. Bore holes 1, 2, 4, 5, and 6 will be continuously monitored during the process. The sample results will be communicated to the command center every twenty minutes. In the event the results warrant the removal of the mine rescue teams, they will be notified immediately.
- e. **Self Contained Breathing Apparatus will be used if atmospheric tests show less than 19.5 % Oxygen, Greater than 1 % Methane or more than 50 PPM Carbon Monoxide which constitutes an IRRESPIRABLE ATMOSPHERE .**
- f. If methane levels increase in excess of 0.5 % above the base line, not to exceed 1%, the power will be immediately disconnected to the mine. Note: An electrician will be assigned to immediately execute this action when deemed by the command center.
- g. If lightning is present in the area everyone will be removed from the mine until it has passed and not re-enter within 60 minutes after it has passed.

We respectfully request permission to:-

**RECOVER THE MINE BY INCREMENTAL PHASES: (1 thru 5)**

**Objective: Advance Fresh Air Base from Block 52 on #4 Belt to 2<sup>nd</sup> Left Mains via track entry, in 1,000 ft. increments to faces by energizing pumps and inspecting and improving the integrity of ventilation controls.**

**Rail equipment and supplies will remain in fresh air. Exploration will be done in 1,000 ft. increments.**

**PHASE 4**

- 1. Enter the mine and begin at break 52 on #4 Belt and advance to 62 break and sequentially install check curtains in entries 1 thru 9 (beginning in #1) between break 61 and break 62. An air lock will be established in a suitable area in this line of curtains as determined by the team and approved by the command center. The check curtain in #9 will have a minimum 1 foot x 2 foot square hole. A report will be made of air direction, quality and quantity traveling inby in the #9 entry at the opening in the check curtain.**
- 2. When curtains at break 61 to 62 are completed, a tube will be installed from inby the curtain line to the fresh air base and the ventilation pressure behind the curtains will be monitored.**
- 3. Install ventilation controls starting at break #53 and proceed inby to re-establish return stopping line into 2 Left to the 1,000 foot limit from the fresh air base.**
- 4. Evaluate the need for airway maintenance i.e.; Pump water**
- 5. Certified electrician will check pump for permissibility prior to being energized. Once ventilation has been established and certified electrician will check pump for permissibility prior to energizing.**
- 6. Pumps will be energized and water will be pumped as needed.**
  - a. Command center may request and approve to have a certified electrician enter the mine when warranted. This electrician must be retrained on the SCSR, have one at arms reach at all times; an additional one available to him, a member of the mine rescue team with him at all times, remain in communication with the fresh air base or command center.**
  - b. The SCSR will be used for escape purposes only**

● Page 3

January 20, 2006

- c. The atmosphere constituents levels in the return will be stable prior to entering return
  - d. No ventilation changes will be made while the electrician is in the return.
7. The air traveling over the permissible dewatering pump and return at break 52 will be continuously monitored at break 52 by a Mine Rescue Team Member while teams are inby. The return will be monitored & the results communicated every twenty minutes to the command center. Remote atmospheric checks will be conducted for levels and presence of methane, oxygen & carbon monoxide.
8. Team will systematically advance exploring all accessible entries inby to the next water accumulation area and check the mine atmosphere for methane, oxygen & carbon monoxide while enroute. In addition, tests for ventilation, air quantity, quality and direction will be verified, noted and communicated to the surface command center at 1,000 foot increments.

*Note: #1 Borehole located in #4 entry will have it's location identified and persons will be instructed to stay clear of that area.*

9. Rail equipment will advance in fresh air inby once atmospheric checks for methane, carbon monoxide and oxygen are at acceptable levels. (Acceptable Levels = Less 1 % methane, 19.5 % Oxygen or greater and less than 50 P.P.M. Carbon monoxide.
10. Communications will be established and maintained with the mine rescue teams and the surface command centre via voice powered mine rescue phones, permissible radios and mine phones. Note: Mine phones MUST remain in fresh air.
11. This process will be repeated until locations are reached as stated in goals and objective statement.

Sign Off

WV-MSHT

John Collins1-20-06

MSHA

James C. Albano1/20/06

Company

Al-Sy Chen  
11:31 am1-20-06

(4)

Anker WV Mining Co. Inc.  
Sago Mine  
Rt. (Box 507)  
Buckhannon, WV 26201  
Phone 304-473-1676  
MSHA I.D. 46-08791  
WV ID U-2016-98B

January 20, 2006

Submittal # R-7d  
Phase 5

Anker West Virginia Mining Company, Sago Mine, is submitting for your review a "Recovery Plan" for the Sago Mine.

The following safety precautions and standards shall be maintained during the following procedures:

- a. A copy of the "Mine Rescue Recovery" map shall be posted at the command center.
- b. 100' scale work maps (**Phase Maps**) shall be provided in 8.5" x 11" size for the mine rescue team to use as work maps. These will be marked to correlate with the designated areas of the "Mine Rescue Recovery" map.
- c. Mine management (mine foreman, superintendent or company representative) familiar with mine shall be in the command center at all times during the exploration by the mine rescue.
- d. Bore holes 1, 2, 4, 5, and 6 will be continuously monitored during the process. The sample results will be communicated to the command center every twenty minutes. In the event the results warrant the removal of the mine rescue teams, they will be notified immediately.
- e. **Self Contained Breathing Apparatus will be used if atmospheric tests show less than 19.5 % Oxygen, Greater than 1 % Methane or more than 50 PPM Carbon Monoxide which constitutes an IRRESPIRABLE ATMOSPHERE .**
- f. If methane levels increase in excess of 0.5 % above the base line, not to exceed 1%, the power will be immediately disconnected to the mine. Note: An electrician will be assigned to immediately execute this action when deemed by the command center.
- g. If lightning is present in the area everyone will be removed from the mine until it has passed and not re-enter within 60 minutes after it has passed.



We respectfully request permission to:-

**RECOVER THE MINE BY INCREMENTAL PHASES: (1 thru 5)**

**Objective: Relocate Fresh Air Base at Break # 61 at North East Mains to explore Old 2 Left Mains via number 1 or 2 Entry to the water shore line near the 1370 elevation..**

**PHASE 5**

1. Start at break 61 and explore to the water shore line near the 1370 elevation as indicated on Phase 5 recovery map.
2. Evaluate the need for airway maintenance.
3. Certified electrician will check pump for permissibility prior to being energized. Once ventilation has been established and certified electrician will check pump for permissibility prior to energizing.
4. Atmospheric checks will be conducted for levels and presence of methane, oxygen & carbon monoxide.
5. Pump will be energized and water will be pumped as needed.
  - a. Command center may request and approve to have a certified electrician enter the mine when warranted. This electrician must be retrained on the SCSR, have one at arms reach at all times; an additional one available to him, a member of the mine rescue team with him at all times, remain in communication with the fresh air base or command center.
  - b. The SCSR will be used for escape purposes only
  - c. The atmosphere constituents levels in the return will be stable prior to entering return
  - d. No ventilation changes will be made while the electrician is in the return.
6. Team will systematically advance exploring #1 or #2 entry checking the mine atmosphere for methane, oxygen & carbon monoxide while enroute. The team(s) shall report the air quality at 1,000 foot intervals.

**NOTE: Mine Rescue Teams must be alert to the bottom mined areas, watching the ribs and for sudden deep water.**

● Page 3

January 20, 2006

7. Communications will be established and maintained with the mine rescue teams and the surface command center via voice powered mine rescue phones, permissible radios and mine phones. Note: Mine phones MUST remain in fresh air.

Sign Off

WV-MSHT



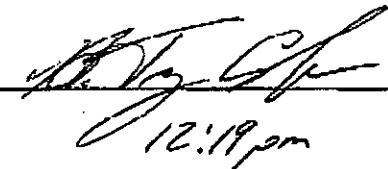
1-20-06

MSHA



1/20/06

Company

  
12:19pm

1-20-06

6

Anker WV Mining Co. Inc.  
Sago Mine  
Rt. 9 Box 507  
Buckhannon, WV 26201  
Phone 304-473-1676  
MSHA I.D. 46-08791  
WV ID U-2016-98B

January 21, 2006

Submittal # R-7e-(1) Amendment

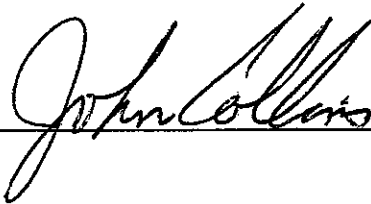
To safety precaution d on plan phases 1-5. Bore holes 1, 2, 7 & Return Entry will be continuously monitored.

Bore Holes 4 & 5 will be checked every 20 minutes.

Results from Bores Holes 1, 2, 4 ,5 ,7 & Return will be reported to command every 20 minutes

Sign Off:

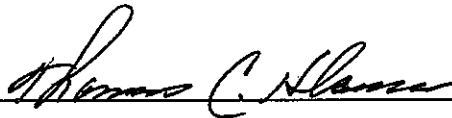
WV-MSHT



Date:

1-21-06

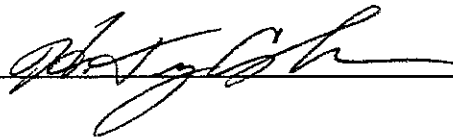
MSHA



Date:

1/21/06

Company



Date:

1-21-06

Anker WV Mining Co. Inc.  
Sago Mine  
Rt. 9 Box 507  
Buckhannon, WV 26201  
Phone 304-473-1676  
MSHA I.D. 46-08791  
WV ID U-2016-98B

January 22, 2006

Submittal # R-7d-(1) Amendment  
Phases 2 through 5

The following amendment is to address allowing a trained motor man to enter the mine following the safety precautions below:

Safety Provisions for trained motor man to enter the mine:

1. Must be trained on the SCSR and have one within arms reach at all times and an additional one available to him.
2. A member of the mine rescue team with him at all times.
3. Remain in communication with the fresh air base or command center.
4. The motor man will only be used underground for the intended purpose that he is needed and will return to the surface once this task has been completed.
5. The SCSR will be used for escape purposes only.
6. The motor man will not enter the return entry(s) at any time.
7. All provisions of the approved phases 2 through 5 shall apply.

Sign Off:

WV-MSHT

Mark W. Gony

Date:

1-22-06

MSHA

[Signature]

Date:

1/22/06

Company

[Signature]  
10:23 Am

Date:

1-22-06

Anker WV Mining Co. Inc.  
Sago Mine  
Rt. 9 Box 507  
Buckhannon, WV 26201  
Phone 304-473-1676  
MSHA I.D. 46-08791  
WV ID U-2016-98B

January 22, 2006

Submittal # R-7d-(2) Amendment  
Phases 1 through 5

The following amendment is to address allowing a certified electrician to enter the mine following the safety precautions below:

Safety Provisions for certified electrician to enter the mine:

1. Each certified electrician must be trained on the SCSR and have one within arms reach at all times and an additional one available to him.
2. A member of the mine rescue team with him at all times.
3. Remain in communication with the fresh air base or command center.
4. The certified electrician will only be used underground for the intended purpose that he is needed and will return to the surface once this task has been completed.
5. The SCSR will be used for escape purposes only.
6. Certified electrician will check charging stations for permissibility prior to being energized.
7. Charging stations will be energized as needed.
8. The certified electrician will not enter the return entry(s) at any time.
9. All provisions of the approved phases 1 through 5 shall apply.

Sign Off:

WV-MSHT Mark W. Spang Date: 1-22-06

MSHA Kenneth W. Lemay Date: 1-22-06

Company Mark W. Spang Date: 1-22-06  
11:55 am

Anker WV Mining Co. Inc.  
Sago Mine  
Rt. 9 Box 507  
Buckhannon, WV 26201  
Phone 304-473-1676  
MSHA I.D. 46-08791  
WV ID U-2016-98B

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January 22, 2006

Submittal # R-7e-(2) Amendment

The following amendment is to address the taking of photographic evidence during recovery operations. All photos will be shared with the I.C.G., W.V.O.M.H.S. & T. & M.S.H.A.

**Safety Provisions for taking pictures:**

1. CH<sub>4</sub> less than 1%.
2. Continuous tests for CH<sub>4</sub>, O<sub>2</sub> & CO will be conducted prior to and during taking of photos.
3. I.C.G. will retain photos and distribute electronic copies to listed regulatory entities as soon as practical.

Bore Holes 4 & 5 will be checked every 20 minutes.

Sign Off:

WV-MSHT Mark Wilfong Date: 1-22-06

MSHA Kenneth W. Tenny Date: 1-22-06

Company Steve Sch Date: 1-22-06

## **Recovery Participants**

Anker West Virginia Mining Company:

Directors of Recovery

H. Tyrone Coleman

John Stemple, Jr.

Greg Nestor

Engineering

Joe Myers

Gary Hartsog

Debriefing

James Schoonover

Brad Hamrick

Expert Support

Ian Hovlison

Miners' Representative

Brian Curtis

Roger Hedrick

Jack Hickman

Mine Safety and Health Administration

Jim Satterfield

Pat Vanover

West Virginia Office of Miners' Health, Safety and Training

Brian Mills

John Collins

### Recovery Phase Command Center Notes

Date	Time	
1-21-06	7:35 A.M.	H. Tyrone Coleman conducted briefing.
1-21-06	9:00 A.M.	Outside Back-up – Barbour B Inside Back-up – Viper A Inside Working – Viper B
1-21-06	9:08 A.M.	Started Underground Viper Team wants a new phone at track drift.
1-21-06	9:09 A.M.	Belt entry CO=0.0 O2=20.9 ch4=0.0 Advancing up track #1
1-21-06	9:20 A.M.	#2 Break PPM CO=0.0 O2=20.9 ch4=0.0
1-21-06	9:37 A.M.	Asking permission to go through air lock-doors Permitted to do so.
1-21-06	9:42 A.M.	Crosscut #10 110V pump #3 running Moving fresh air base between 8 & 9 of 1 track.
1-21-06	9:50 A.M.	Break 10 FAB (Track Entry) CO=.0 O2=20.9 ch4=0.0
1-21-06	10:00 A.M.	FAB =requesting (4) reels of phone line.
1-21-06	10:10 A.M.	Instructed to use existing phone line, disconnect inby and reconnect as team moves inby.
1-21-06	10:30 A.M.	Requesting to advance – phone line is broken at 10 Block.
1-21-06	10:42 A.M.	Team at #2 head. CO= 0.0 O2=20.9 ch4=0.0 Permission to move FAB #2 head on track.
1-21-06	10:53 A.M.	FAB at #2 head. Team moving to W-1 to check pump.
1-21-06	10:55 A.M.	W-1 CO=0.0 O2=20.5 ch4=0.0 15” of water up on pump at W-1 Discussed examination required next shift prior to start.



1-21-06	11:19 A.M.	Belt tail CO=0.0 O2=20.9 ch4=0.0 Moving FAB to #2 tail.
1-21-06	11:32 A.M.	Request to advance to #8 block of 3 track – get air left and right at 8 block.
1-21-06	11:42 A.M.	Continuous monitor borehole #7, #6 not being sampled, (modified) 1,2,and 7 Boreholes will be continuously monitored, along with pit-mouth (return) every 20 minutes. Pit-mouth, 1,2,4,5, and 7 Borehole results wrong 20 minutes reported. Phase 1 submittal #R-7e (a)
1-21-06	12:05 P.M.	#3 Belt 7 CO=0.0 O2=20.9 ch4=0.0
1-21-06	11:48 A.M.	#8 CO=0.0 O2=20.9 ch4=0.0 #1 CO=0.0 O2=20.7 ch4=0.0
1/21/07	11:50 A.M.	#2 CO=0.0 O2=20.7 ch4=0.0 No water in return at 8 block. Found 4 rolls of phone line 8 block of 3 track.
1-21-06	12:11 P.M.	Request to move FAB to 9 block of 3 track.
1-21-06	12:20 P.M.	Request to move to 16 block of 3 belt.
1-21-06	12:35 P.M.	Roof fall at 15 block #3 entry of 3 belt. Spad 3150 - return stopping intact.
1-21-06	12:40 P.M.	Team at 19 block of 3 belt - mandoor open at overcasts.
1-21-06	12:54 P.M.	Closed door at 19 block, advancing to 28 block.
1-21-06	1:02 P.M.	Ankle deep H2O between 28 & 29 block of 3 track.
1-21-06	1:08 P.M.	Break 32 CO=0.0 ch4=0.0 O2=20.6 Moving FAB to 32 – Getting air analysis at 32 intake and Return.
1-21-06	1:26 P.M.	Air #3 Belt Block 32 #5 CO=0.0 O2=20.9 ch4=0.0 91,785cfm
1-21-06	1:20 P.M.	#1 Entry CO=0.0 O2=20.7 ch4=0.0 31,008cfm
1-21-06	1:25 P.M.	#2 CO=0.0 O2=20.7 ch4=0.0 32,077cfm
1-21-06	1:49 P.M.	#3 Entry CO= 0.0 O2=20.7 ch4=0.0 22,344cfm Outby
1-21-06	1:06 P.M.	#4 Entry track CO=0.0 O2=20.6 ch4=0.0 21,489cfm Outby

1-21-06	2:12 P.M.	FAB at 17 Block Viper A – Viper B (Flip/Flop teams.
1-21-06	2:30 P.M.	Briefed Robert True by John Collins Advancing to 39 Block of #3 belt Viper A inby – Viper B at FAB
1-21-06	2:37 P.M.	Viper A Team – ankle deep water between 33/34 Block in track overcast door open at 35 Block & air is coming out into track
1-21-06	2:40 P.M.	Close the door between track and belt at 35 Block
1-21-06	2:45 P.M.	Water over the track at Block 38 Pump house on left side of belt at this area.
1-21-06	2:46 P.M.	Block 39 Viper A
1-21-06	2:46 P.M.	Move up fresh air base Stop the mantrip at Block 38
1-21-06	2:55 P.M.	FAB Block #1 Belt #4
1-21-06	3:00 P.M.	No lightning – more clearing – no rain until tomorrow Bar. 30.26
1-21-06	3:05 P.M.	Borehole #1 ch4=0 O2=21 CO=0 #2 ch4=0 O2=21 CO=0 #4 ch4=0 O2=20.9 CO=0 #5 ch4=0 O2=20.7 CO=0 #7 ch4=.3% O2=20.7 CO=0 Return ch4=0 O2=20.9 CO=0 Water gauge 1.7 Return 121,149cfm
1-21-06	3:08 P.M.	Command Center to FAB -go to return and check water levels
1-21-06	3:14 P.M.	No accumulation of water in Block #1 & Block #2 team advancing
1-21-06	3:20 P.M.	Block 3 approximately 8” water
1-21-06	3:21 P.M.	Entry 1 / 2 / 7/ 8 / 9 quantity and quality of air analysis Command Center to FAB Barbour County Mine Rescue Team briefing at 3:15 P.M.
1-21-06	3:40 P.M.	#7 mantrip Roger Hedrick equipment operator Barbour County Rescue B Team to Block 38 Belt #3
1-21-06	3:45 P.M.	#1 Entry ch4=0 O2=20.8 CO=0 31,061cfm

#2 Entry ch4=0 O2=20.9 CO=0 40,032cfm  
 Intake #7 Entry ch4=0 O2=20.9 CO=0 8,405cfm air inby  
 Intake #8 Entry ch4=0 O2=20.9 CO=0 25,830cfm air inby  
 Intake #9 Entry ch4=0 O2=20.9 CO=0 15,984cfm air inby  
 Entry 3 / 4 / 5 / 6 air flow outby  
 Total Return 71,093cfm Total Intake 50,219cfm  
 This was taken Block 3 Belt 4  
 1-21-06 4:00 P.M. #7 Entry Block 3 82,485cfm  
 Corrected air reading  
 Total Return 71,093cfm Total Intake 124,299cfm  
 1-21-06 4:10 P.M. Team at crosscut 8 door intake at overcast  
 Viper A Team – advancing  
 Barbour County B Team – FAB  
 Viper B Team – coming to surface  
 1-21-06 4:15 P.M. Block 10 Advancing Viper A Team  
 1-21-06 4:20 P.M. Overcast at Block 10 / 11 Track spur has damage  
 1-21-06 4:21 P.M. Overcast at Block 12 Track air flowing over to inby  
 1-21-06 4:25 P.M. Overcast #9 in tact Overcast in #7 destroyed  
 1-21-06 4:30 P.M. 8 Entry between 11/12 Block stopping destroyed  
 1-21-06 4:35 P.M. 8 Entry between 12/13 Block stopping out  
 1-21-06 4:40 P.M. Viper A outside  
 1-21-06 4:50 P.M. Inby 13 Block to Block 14  
 #9 Entry ch4=0 O2=20.9 CO=0 43,246cfm inby  
 #8 Entry ch4=0 O2=20.9 CO=0 17,760cfm air outby  
 #7 Entry ch4=0 O2=20.9 CO=0 27,282cfm air inby  
 Air reading #4 Belt Block 13 inby  
 #1 Entry ch4=0 O2=20.7 CO=0 35,473cfm air flowing outby  
 #2 Entry ch4=0 O2=20.7 CO=0 35,776cfm air flowing outby  
 Entry 3 air outby  
 Entry 4-5 air outby

Entry 6 air outby  
Total Return 71,249cfm    Total Intake 70,528cfm

1-21-06	5:00 P.M.	Temp. falling Bar. 30.36
1-21-06	5:08 P.M.	Door in #3 Entry Block 12/13 was open
1-21-06	5:09 P.M.	Door in #3 Entry Block 12/13 closed
1-21-06	5:10 P.M.	FAB being moved
1-21-06	4:50 P.M.	#1 Borehole ch4=0 O2=20.9 CO=0
		#2 Borehole ch4=0 O2=20.9 CO=0
		#4 Borehole ch4=.2 O2=20.9 CO=0
		#5 Borehole ch4=.2 O2=20.9 CO=0
		#7 Borehole ch4=.3 O2=20.9 CO=0
		Return 125,012cfm    water gauge 1.7
1-21-06	5:25 P.M.	Phone check Block #13 FAB
1-21-06	5:30 P.M.	Block 16 Team Viper B advancing
1-21-06	5:31 P.M.	Block 16 Phone line in to due to rock falling on it.
1-21-06	5:40 P.M.	Block 19 water ankle deep on track – 110 pump at this location
1-21-06	5:30 P.M.	Borehole #1 ch4=0 O2=20.9 CO=0
		#2 ch4=0 O2=20.9 CO=0
		#4 ch4=.2 O2=20.9 CO=0
		#5 ch4=.2 O2=20.9 CO=0
		#7 ch4=.3 O2=20.9 CO=0
		Return ch4=0 O2=20.9 CO=0 119,332cfm
		Water gauge 1.7
1-21-06	5:45 P.M.	Team at Block 22 – Taking air readings
1-21-06	5:55 P.M.	Belt #4 Block 22 #9 Entry CO=0 O2=20.9 ch4=0 24,600cfm
		air inby
		Intake #8 Entry CO=0 O2=20.9 ch4=0 20,805cfm air inby
		#7 Entry CO=0 O2=20.9 ch4=0 46,512cfm air inby
		Total: 91,917cfm Intake

Belt #4 Block 22 #6 Entry CO=0 O2=20.9 ch4=0 No air movement  
 #5 Entry CO=0 O2=20.9 ch4=0 No air movement  
 #4 Entry CO=0 O2=20.9 ch4=0 Unsafe intersection air movement outby  
 #3 Entry CO=0 O2=20.6 ch4=0 No movement  
 #2 Entry CO=0 O2=20.9 ch4=0 38,056 air flowing outby  
 #1 Entry CO=0 O2=20.9 ch4=0 31,268 air flowing outby  
 Total: 69,324cfm Return  
 1-21-06 6:13 P.M. Mantrip going inside with MSHA inspector to relieve other inspector.  
 Belt #4 Block 22 Intake 91,917 cfm Return 69,324 cfm  
 1-21-06 6:20 P.M. FAB will be moved to #22 Block Belt #4  
 1/12/06 6:40 P.M. FAB 22 Block Belt #4  
 1-21-06 6:45 P.M. Team Viper B advancing track entry  
 1-21-06 6:50 P.M. 32 Block intake stopping out / had curtain over it but is out also.  
 1-21-06 6:56 P.M. Block 36 Return & Intake stoppings intact  
 1-21-06 7:00 P.M. Outby 32 No movement 32 inby / air movement is inby  
 1-21-06 7:00 P.M. Start air readings  
 1-21-06 6:12 P.M. Borehole 1 ch4=0 CO=0 O2=20.9  
 Borehole 2 ch4=0 CO=0 O2=20.9  
 Borehole 4 ch4=.2 CO=0 O2=20.9  
 Borehole 5 ch4=.2 CO=0 O2=20.9  
 Borehole 7 ch4=.3 CO=0 O2=20.9  
 Return ch4=0 CO=0 O2=20.9 123,405cfm water gauge 1.7  
 1-21-06 7:15 P.M. Intake Entry #8 Outby 36 Block CO=0 O2=20.9 ch4=0 29,328 air flowing inby  
 #7 Entry CO=0 O2=20.9 ch4=0 21,621 air flowing inby

Taken at Block 35 due to gob Entry #9 CO=0 O2=20.9 ch4=0  
 16,228 air flowing inby  
 Total: 67,177cfm Intake  
 #6 Entry CO=0 O2=20.9 ch4=0 air flowing inby  
 #5 Entry CO=0 O2=20.9 ch4=0 air flowing inby  
 #4 Entry CO=0 O2=20.9 ch4=0 22,924cfm air flowing outby  
 #3 Entry CO=0 O2=20.9 ch4=0 13,824 air flow outby water  
 over knee deep  
 #2 Entry 3 to 1 entry  
 1-21-06 8:00 P.M. Traveled #3 Entry from Block 36 outby to Block 32  
 Water knee deep  
 Block 34 – Return stopping out  
 Block 33 – Return stopping out  
 Block 33/34 – Return stopping previously replaced with curtain  
 1-21-06 8:10 P.M. Borehole #1 ch4=0 O2=20.9 CO=0  
 #2 ch4=0 O2=20.9 CO=0  
 #4 ch4=.2 O2=20.9 CO=0 1279cfm  
 #5 ch4=.2 O2=20.9 CO=0 1700cfm  
 #7 ch4=.3 O2=20.9 CO=0 1115cfm  
 Return ch4=0 O2=20.9 CO=0 129,206cfm  
 Water gauge 1.7”  
 1-21-06 8:12 P.M. Moving FAB – unplug phone & team shall proceed to the outside  
 1-21-06 8:15 P.M. Clyde Tenney #7 mantrip to the outside  
 1-21-06 8:30 P.M. Teams outside Viper B and Barbour B for debriefing  
 Mark Wilfong  
 1-22-06 Attended team briefing with John Collins  
 1-22-06 8:37 A.M. Roger Hedrick fireboss – reported from 2 head – Area safe  
 1-22-06 9:06 A.M. Fireboss completed examination to 39 of 4 belt  
 Coming back to surface 20.9 O2 0.0 ch4  
 1-22-06 8:40 A.M. Holes 1,2,4,5,7 = ch4 0.0 CO = 0.0 O2 = 20.9

1-22-06	9:00 A.M	Bar 30.45 falling, no rain, increase clouds.
1-22-06	9:17 A.M	Return 118,832cfm
1-22-06	9:23 A.M.	Fireboss returned to surface
1-22-06	9:45 A.M.	Question about supplies to be loaded ahead of mantrip – yes
1-22-06	10:08 A.M.	Team ready to go in waiting on motorman
1-22-06	10:25 A.M.	Approved #7d – (1) Amendment to allow motorman to take motor to 39 block.
1-22-06	10:40 A.M.	Team in pit Sanders froze on motor – Instructed to level enough supplies on man-trip to make 4 builds.
1-22-06	10:57 A.M.	Entered mine - Viper Teams
1-22-06	11:32 A.M.	FAB being reestablished at 36 Block
1-22-06	11:40 A.M.	Ready to go, told to establish monitor at 36 Block into the intersection in #4 Entry for air samples.
1-22-06	11:44 A.M.	#37 man-trip on way outside
1-22-06	12:01 P.M.	Barometer 30.43 falling
1-22-06	12:01 P.M.	Pump set at 36 CO=0.0 O2=20.9
		Permission granted to start building at 33 and 34 Block Return
		Going to start building at #33
		#37 man-trip on surface
1-22-06	12:28 P.M.	Dick Wilfong told clear to enter mine with mine rescue team member to examine battery chargers at 15 Block motor spur and to put motor on charge at that location.
1-22-06	12:38 P.M.	#37 man-trip going into the motor barn. Roger Hedrick / Dick Wilfong
1-22-06	12:40 P.M.	FAB to Command Center - #33 is built but not sealed with foam. Starting on #34
1-22-06	12:55 P.M.	Air samples steady at 34 Block of #4 Belt Return stopping. Samples still good Air monitor in return at 36 Block – 4 Belt
1-22-06	1:09 P.M.	Stopping 34 complete on return side #4

36 Block Return - O<sub>2</sub>= 21.1 CO=0.0 ch<sub>4</sub> = 0.0

1-22-06	1:14 P.M.	Stopping in at 35 Block is intact
1-22-06	1:20 P.M.	#37 man-trip is outside 1 motor is on charge (It's #3 motor that is on charge now.)
1-22-06	1:35 P.M.	Briefed by Dick Wilfong - #3 charger is only thing plugged in at motor charger.
1-22-06	1:38 P.M.	Team is at 36 Block are now advancing to 40 Block Team asked to advance to 46 Block and then retreat back and then Build ventilation controls – Denied
1-22-06	1:42 P.M.	Command Center asked team to confirm status of stoppings to 40 Block Team A at FAB Team B is in-by
1-22-06	1:47 P.M.	Stoppings in 37 and 38 Blocks are intact.
1-22-06	1:51 P.M.	Stoppings in 39 intake and return intact. Stopping in 40 with door intact also.
1-22-06	1:52 P.M.	Team has found phone waiting to move FAB to 41. Permission denied.
1-22-06	1:54 P.M.	Command Center told FAB will advance to 46 Block before moving FAB.
1-22-06	1:55 P.M.	Team B is at 41- intake stopping intact. Going to build return at 41 now.
1-22-06	2:05 p.m.	Command Center explained to team how to construct ventilation controls to team. 3 Lock-n-Loads Curtain spaded around perimeter and then foamed.
1-22-06	2:09 P.M.	Question about building stoppings
1-22-06	2:55 P.M.	Rebuilt stopping at 41 between belt and return.
1-22-06	2:58 P.M.	Briefed Robert True, Jr. by John Collins. Have not started any more water pumps.
1-22-06	3:30 P.M.	Block 42 Stopping rebuilt between belt and return.



1-22-06 3:35 P.M. #9 Man-trip at 36 block on 4 Belt from outside. Taking Barbour A Team. Jeff Bennett, John Hall – State. Will be tasked trained on Hilti Gun.

1-22-06 3:20 P.M. Borehole Bar. 30.38 falling – Temp. 50 degrees  
 #1 ch4=0 O2=20.9 CO=0  
 #2 ch4=0 O2=20.9 CO=0  
 #4 ch4=.2 O2=20.9 CO=0  
 #5 ch4=.2 O2=20.9 CO=0  
 #7 ch4=.3 O2=20.9 CO=0  
 Return water gauge 1.8 inches. Return ch4=0 O2=20.9 CO=0  
 Return 119,392 CFM

1/ 22/06 356 P.M. Barbour Team is at Block #36 Belt #4 of FAB.  
 Viper B Team is in-by at Block #43 taking air analysis for move up of FAB.  
 Belt #4

	Entry	CO	O2	Ch4	airflow
3:51 P.M.	9	0.0	20.7	0.0	19,569 CFM in-by
3:57 P.M.	8	0.0	20.7	0.0	22,686 CFM in-by
3:57 P.M.	7	0.0	20.7	0.0	16,188 CFM in-by
3:57 P.M.	6	0.0	20.7	0.0	in-by
3:57 P.M.	5	0.0	20.7	0.0	in-by
4:31 P.M.	1	0.0	20.4	0.2	12,753 CFM out-by
4:33 P.M.	2	0.0	20.4	0.0	19,127 CFM out-by
4:33 P.M.	3	0.0	20.6	0.0	13,308 CFM out-by
4:33 P.M.	4	0.0	20.6	0.0	26,906 CFM out-by

Some water mostly mud in Block 43.  
 Advance FAB 42 block of 43  
 Total 58,443 CFM intake 72,094 return Belt #4 Block 43 out-by

1-22-06 5:00 P.M. Sampling tube taken thru block 43 out-by side of #4 entry.  
 Viper A Team leaving for outside.

1-22-06	5:00 P.M.	Borehole	Ch4	O2	CO	
		#1	0.0	20.9	0.0	
		#2	0.0	20.9	0.0	
		#4	0.2	20.9	0.0	
		#5	0.2	20.9	0.0	
		#7	0.3	20.9	0.0	
		#Return	0.0	20.9	0.0	118,272 CFM
		Bar. 30.35 temp. 50 degrees				
1-22-06	5:13 P.M.	Task training Hilti Gun / Barbour A Team.				
1-22-06	5:15 P.M.	Supply wedges pogo sticks 15 bundles 24 bottles drinking water 1 bucket				
		Spads, 3 saws and blades (2) 11 rolls of curtain 23 foam packs				
		Block 41 Supply hole Belt #4 2 axes				
1-22-06	5:22 P.M.	Block 41 phone at Block 42 / 8 axes, 1 box 16 penny nails / 1 bucket spads				
1-22-06	5:24 P.M.	Block 43 case 8 penny nails, 4 saws, bundle saw blades, 1 box foam, 40 brattice boards, 1 phone in line.				
1-22-06	5:30 P.M.	Man-trip 18 on the surface Viper A Team				
1-22-06	5:42 P.M.	Block 43 wall completed.				
		2 Pallets of blocks at block 43.				
1-22-06	5:45 P.M.	Curtain which was between 43/44 has been taken down in the track.				
1-22-06	5:51 P.M.	Block 44 track 10 feet out-by cross-cut 6 feet side of entry, bottom side of self rescuer.				
1-22-06	5:53 P.M.	Block 43/44 between 4/5 entry stopping out.				
1-22-06	5:55 P.M.	check curtain across in belt entry between block 43/44. This was already installed. Belt entry at block 44 to 45 air moving in-by.				
1-22-06	6:00 P.M.	Borehole	Ch4	O2	CO	
		#1	0.0	20.9	0.0	
		#2	0.0	20.9	0.0	

		#4	0.2	20.9	0.0
		#5	0.2	20.9	0.0
		#7	0.3	20.9	0.0
		Return	0.0	20.9	0.0
		CFM 118,384 water gauge 1.8". Bar. 30.34 falling temp. 46 Degrees.			
1-22-06	6:14 P.M.	Block 44 Omega 8X8X14 – was 71 inches from rib line to the return			
		Between entries 4 to 5. Photo #4 was on in-by side of crosscut.			
1-22-06	6:20 P.M.	Helti longer fasteners and charges for Helti gun.			
1-22-06	6:22 P.M.	Block 44 stopping completed,			
		Roger Hedrick transporting Hilti.			
1-22-06	6:30 P.M.	Block 45 air movement O.O CO, O.O Ch4, 21% O2 to #5 entry.			
1-22-06	6:35 P.M.	Intake stopping out at Block 45 Curtain installed.			
1-22-06	6:40 P.M.	Roger Hedrick No. 9 man-trip.			
		Built #4 entry 45 to 46 before building block 45 for easier access. (Discussion) (not done)			
1-22-06	6:56 P.M.	Block 45 stopping complete.			
1-22-06	7:00 P.M.	Borehole	Ch4	O2	CO
		#1	0.0	20.9	0.0
		#2	0.0	20.9	0.0
		#4	0.2	20.9	0.0
		#5	0.2	20.9	0.0
		#7	0.3	20.9	0.0
		Return	0.0	20.9	0.0
		Water gauge 1.8 inches, Bar. 30.31 falling, temp. 46 degrees.			
		118,880 CFM			
1-22-06	7:17 P.M.	Roger Hedrick #9 Man-trip outside.			
1-22-06	7:30 P.M.	Block 45/46 entry 4 stopping erected.			
1-22-06	7:55 P.M.	Block 45/46			

Entry	CO	O2	Ch4	Air movement	CFM
#3	0.0	21.0	0.0	out-by	30,409
#2	0.0	21.0	0.0	out-by	27,720
#1	0.0	21.0	0.3	out-by	18,270
Return Total					76,399 CFM

1-22-06 8:35 P.M. #9 outside to motor barn underground Roger Hedrick  
Between 16/20 block Main #1 entry OK

1-22-06 8:45 P.M. Spad 3849 hole 3 feet high by 8 feet wide  
6 inch hollow block stoppings, stopping will be repaired.

1-22-06	8:00 P.M.	Borehole	Ch4	O2	CO
		#1	0.0	20.9	0.0
		#2	0.0	20.9	0.0
		#4	0.2	20.9	0.0
		#5	0.2	20.9	0.0
		#7	0.3	20.9	0.0
		Return	0.0	20.9	0.0

Water gauge 1.8 inches, Bar. 30.29 falling, raining - temp. 43  
degrees. 121,956 CFM

1-22-06 8:50 P.M. Stopping in-by spad 3849 was taken out previously Mains #2  
entry.  
Stopping in-by spad 3849 taken out previously 1st Left #3 Entry  
Confirmed by Carl Crumrine.

1-22-06 8:52 P.M. #3 Motor breaker knocked and unplugged by Roger Hedrick at  
motor barn – charger 17 block.

1-22-06 9:10 P.M. Diagonal repaired.

Entry	CO	O2	Ch4	Air movement	CFM
#7	0.0	20.7	0.0	in-by	9,165
#8	0.0	20.7	0.0	in-by	16,422
#9	0.0	20.7	0.0	in-by	17,436

Intake Total 43,023 CFM

#5 Air going in-by.  
#6 Air going in-by.

1-22-06 9:32 P.M. FAB to 46 block Belt #4, De-energized the phone.  
Battery disconnected. Disconnected battery of the motor and will leave fresh air base. Motor #1, Supply car 24 rolls of curtain / wedges, 1 foam / case of 8 penny nails.

1-22-06 9:00 P.M.

Borehole	Ch4	O2	CO
#1	0.0	20.9	0.0
#2	0.0	20.9	0.0
#4	0.2	20.9	0.0
#5	0.2	20.9	0.0
#7	0.4	20.9	0.0
Return	0.0	20.9	0.0

Water gauge 1.8 inches, Bar. 30.27 falling, rain ½ inch - temp. 39 degrees. 112,990 CFM

1-22-06 9:00 P.M. FAB 46 Block stopping established to block 48.

1-22-06 10:05 P.M. Team preparing to leave the mine.

1-22-06 10:00 P.M.

Borehole	Ch4	O2	CO
#1	0.0	20.9	0.0
#2	0.0	20.9	0.0
#4	0.2	20.9	0.0
#5	0.2	20.9	0.0
#7	0.4	20.9	0.0
Return	0.0	20.9	0.0

Water gauge 1.8 inches, Bar. 30.23 falling, rain ½ inch - temp. 39 degrees. 115,200 CFM

Team inby Barbour A Team Back-up Viper B Surface Viper A

1-22-06 10:30 P.M. Man-trip outside on Man-trip #37.  
Phase 2 #12 statement not completed on moving monitor point.

1-23-06	6:17 A.M.	Day Shift John Collins			
1-23-06	6:29 A.M.	Roger Hedrick and Virgil Brown entered the mine to pershift.			
		Air samples good, measured .7 Ch4 at sample hole but was a bad detector. Sample holes good for start.			
1-23-06	6:00 A.M.	Borehole	Ch4	O2	CO
		#1	0.0	20.9	0.0
		#2	0.0	20.9	0.0
		#4	0.1	20.9	0.0
		#5	0.1	20.9	0.0
		#7	0.4	20.9	0.0
		Return	0.0	20.7	0.0
		No lightning, light rain. Phase #2			
1-23-06	7:02 A.M.	Fire-boss leaving #4 head coming outside, Roger Hedrick and Virgil Brown.			
1-23-06	6:50 A.M.	Borehole	Ch4	O2	CO
		#1	0.0	20.7	0.7
		#2	0.0	20.9	0.0
		#4	0.1	20.7	0.0
		#5	0.1	21.0	0.0
		#7	0.4	20.9	0.0
		Return	0.0	20.9	0.0
		Water Gauge 1.8, Return 117,600 CFM      Water Level 268.35 feet. FAB to 46.			
1-23-06	7:16 A.M	Fire-boss outside.			
1-23-06	7:10 A.M.	Borehole	Ch4	O2	CO
		#1	0.0	20.7	0.8
		#2	0.0	20.9	0.0
		#4	0.1	21.6	0.0
		#5	0.1	21.6	0.0
		#7	0.4	21.5	0.0

		Return	0.0	20.9	0.0
1-23-06	7:30 A.M.	Attended team briefing.			
1-23-06	8:05 A.M.	Rescue teams entered mine to FAB 46 Block.			
1-23-06	8:08 A.M.	37 Man-trip entering to FAB to repair motor.			
1-23-06	8:30 A.M.	Team at FAB Return at 46 FAB #3 Entry.			
1-23-06	8:37 A.M.	CO 0.0	O2=20.9	Ch4 0.0	
		Advancing to block 48.			
1-23-06	8:45 A.M.	Team reported stopping at 45 is complete.			
1-23-06	8:50 A.M.	Stopping at 48 is complete. Check overcast at 49 block #2.			
1-23-06	9:10 A.M.	Break 49 overcast is intact except a couple of panel, gave permission to repair.			
1-23-06	9:12 A.M.	State and Federal Rescue Teams will work 8 hour shifts. At 4 P.M. and 12 P.M. will need ride in and out. Jeff Toler – approved.			
		Found hat and bucket at 49 of 4 track. Found ½ hat between 5-6 Entries at 49 block. Bus 37 crew heading outside.			
1-23-06	9:20 A.M.	Dick Wilfong cut hand 5 inches long – lid on motor. Left hand.			
1-23-06	9:26 A.M.	Overcasts #3 entry 49 block (belt overcasts) repaired.			
1-23-06	9:33 A.M.	Stopping in-by 50 right of track, #4 entry intact. Stopping 3875 #2 entry right of track repaired hole in stopping.			
1-23-06	9:40 A.M.	37 Man-trip outside.			
1-23-06	10:30 A.M.	Block 48 in track 3 self-rescuer bottoms 3 to 4 feet into intersection.			
1-23-06	11:10 A.M.	All temps. Are built at 52 all walls are built at 51.			
1-23-06	11:27 A.M.	Taking air readings at 51 block #3 entry.			
1-23-06	11:28 A.M.	50 / 51 block #3 entry 20,622 CFM			
		0.0 CO	20.7 O2	0.0 Ch4	
		Finishing foam on stopping out-by fall #1.			
1-23-06	11:56 A.M.	Requesting (2) additional cap lamps.			
1-23-06	11:49 A.M.	#6 Entry CO=0.0	O2=20.4	Ch4= 0.0	
		Track Air flow out-by 3,312 CFM.			

#5 Entry CO=0.0 O2=20.4 Ch4=0.0

Belt No movement.

Roof fall at 51 block #7 entry toward #8.

Return #3 from mains Block 52 20,622 Intake 17,280

Track 3,312 Intake 11,305

Totals 23, 934 CFM 28,585 CFM

Retrun at 46 Block 76,399 CFM

1-23-06 12:12 P.M. Air reading 52 block of 4 belt. #9 entry CO=0.0, O2=20.6,  
Ch4=0.0

#9 Air moving in-by 17,280 CFM

#8 CO=0.0 O2=20.6 Ch4=0.0 11,305 CFM

#7 CO=0.0 O2=20.6 Ch4=0.0

Air flow slow in-by-in-by movement.

Air Reading to 1 Left at 49 block CO = 0.0, O2=20.5 Ch4 = 0.0

Belt Air flow in-by = 17,600 CFM

Crosscut #50 CO=0.0 O2= 20.7 Ch4 0.0

Track in-by CFM = 23,541 CFM Total going to 1st Left = 41,141  
CFM

1-23-06 12:45 P.M. Break 0 of 1st Left belt guard down taking picture and taking  
down.

Phase No. 2 Completed at 12:30, 1-23-06

Started Phase No. 3

1-23-06 12:55 P.M. Block 6 of 1st Left checking return.

Entry	Ch4	O2	CO
#1	0.0	20.6	0.0
#2	0.0	20.5	0.0
#3	0.0	20.0	0.0

#1 19,040 CFM,

#2 15,912 CFM,

#3 No reading.



1-23-06	1:20 P.M.	Move FAB to 6 Block of 1st Left.			
1-23-06	2:08 P.M.	Rescue team entered the mine Barbour Team.			
		Working	Back-up	Surface	
		Viper A	Barbour	Viper B	
1-23-06	2:05 P.M.	FAB at 6 Block – Close door.			
1-23-06	2:17 P.M.	Closed man-door at 12 block between 2 and 3 entries of 1st Left.			
1-23-06	1:30 P.M.	Samples Good .4 Ch4 #7 hole.			
1-23-06	2:45 P.M.	Briefed Robert True, Jr. by John Collins			
1-23-06	2:50 P.M.	Jeff Bennett is walking to the section due to motor crew not going till 3:15 P.M. The Viper A team is proceeding when receiving the 4 radios at 1st Left switch.			
1-23-06	3:00 P.M.	Radios secured.			
1-23-06	3:05 P.M.	Viper A team is in-by Block 13 intake / return stopping OK.			
1-23-06	3:06 P.M.	Viper A team return / intake stopping in place block 14 and block 15. Jeff Byard at FAB phone.			
1-23-06	3:10 P.M.	Block 18 has doors in the intake / return not on the map. Block 19 door in return stopping.			
1-23-06	3:15 P.M.	Sump at #1 entry Block 19, Team at Block 21.			
1-23-06	3:15 P.M.	Return O2 = 20.9	CO 0.0	Ch4 0.0	
		Sampling point block 6 #2 entry.			
1-23-06	2:40 P.M.	Borehole	Ch4	O2	CO
		#1	0.0	20.7	0.0
		#2	0.0	20.9	0.0
		#4	0.2	21.8	0.0
		#5	0.2	21.9	0.0
		#7	0.4	20.9	0.0
		Return	0.0	20.9	0.0
		Bar. 30.00 falling, Temp. 43, Water gauge 1.8 inches.			
		Return Air Reading, 106,080 CFM			

1-23-06	3:27 P.M.	Entry	O2	CO	Airflow	Readings
		#1	20.6	0.0	Out-by	15,483 CFM
		#2	20.7	0.0	Out-by	27,072 CFM
		#4	20.7	0.0	In-by	8,623 CFM
		#5	20.7	0.0	In-by	6,615 CFM
		#6	20.9	0.0	In-by	9,690 CFM
		#7	20.7	0.0	In-by	13,291 CFM
		#8	20.7	0.0	No Air Flow	
		#9	20.6	0.0	No Air Flow	
1-23-06	3:30 P.M.	#7 Man-trip cleared outside Viper B outside				
		#37 Man-trip to 1st Left switch Ison Sturgell				
		MSHA Inspector Basil Chisder				
1-23-06	3:50 P.M.	0.2=20.9	Ch4=0.0	CO=0.0	Block 6 Ret.	
		Total Return 42,555 CFM				
		Total Intake 38,291 CFM				
1-23-06	4:20 P.M.	FAB being moved to Block 20/21 Monitor in Block 19 to Ret.				
1-23-06	3:30 P.M.	Borehole	Ch4	O2	CO	
		#1	0.0	20.9	0.0	
		#2	0.0	20.9	0.0	
		#4	0.2	20.9	0.0	
		#5	0.2	20.9	0.0	
		#7	0.4	20.9	0.0	
		Return	0.0	20.9	0.0	
		Bar. 30.02, Temp. 43, Water gauge 1.8 inches.				
		Return Air Reading, 112,672 CFM				
1-23-06	4:25 P.M.	Block 21 door open return side closed. Spad 4163 stopping out				
		entry #2, Air readings being taken at stopping which is out-				
		CO=0.0	O2=20.9	Ch4 0.0	Airflow=out-by	
		14,448 CFM				
1-23-06	4:50 P.M.	FAB Block 21 Monitor Point at Block 19 (sample tube)				

CO=0.0      O2=20.9      Ch4 =0.0

Viper A Team proceed to 3820 spad.

Take air reading 2 blocks in-by.

1-23-06      5:50 P.M.      #1 Motor and #37 man-trip are outside. Roger Hedrick and Basil Chidister.

1-23-06      5:08 P.M.      Stopping 3778 out A-1 Panel.  
CO=0.0      O2=20.5      Ch4 0.0      Air moving out-by  
Between #1 and #2 entry.

1-23-06      5:10 P.M.      In-by spad 3781    One (1) block out of center of stopping between  
#1 / #2 entry. # in-by 3810 out-by side of stopping out.

1-23-06      5:13 P.M.      CO= 0.0      O2= 20.4      Ch4= .3 air out-by.

1-23-06      5:20 P.M.      #1 Motor and #37 Man-trip to Motor Spur.

1-23-06      5:21 P.M.      Team at 12 Block in place.  
CO=0.0      O2=20.4      Ch4=.3      Between Block  
12/11.  
Smoke Tube= 5'11" Height, 19 feet width, 35 seconds to move  
10'.  
1190 CFM Corrected 1972 CFM  
#37 Man-trip outside # Motor on charge.

1-23-06      5:50 P.M.      O2=20.4 Ch4=0.0 CO=0.0    Block #23 stopping 2/3 out.  
6" hollow blocks/trajectory towards return entry. There is a  
stopping at 3709 in #2 entry door in #25 block return stopping but  
stopping but stopping to left is out knocked out not blown out.

1-23-06      5:57 P.M.      Block 26    1 Block out of top in-by corner.  
Block 27    1 Block out of top in-by corner.  
Kennedy stopping built out-by 3805 blown out-by ½ of it.

1-23-06      6:10 P.M.      Stopping 3809 is installed #1 entry Mains spad 4200  
CO=0.0      O2=20.6      Ch4=0.0  
Airflow out-by 14,373 CFM  
A-2 Blocks 3 Blown out towards return

		80% in-by side left			
		CO=0.0	O2=20.4	Ch4=0.0	Air Analysis
1-23-06	6:20 P.M.	#4 Stopping up			
		#5 Stopping out 80% out-by side out			
1-23-06	6:25 P.M.	CO=0.0	O2=20.5	Ch4=.2	
		Block 6 --1/3 stopping out towards return			
		Airflow out-by.			
1-23-06	6:30 P.M.	#7 Block is 100% destroyed. Spad 4237.			
		CO=0.0	O2=20.9	Ch4=.2	Air-low out-by
1-23-06	6:26 P.M.	Sampling tube FAB to return.			
		CO=0.0	O2=20.9	Ch4=0.0	
		Sampling tube at Block 19			
1-23-06	6:45 P.M.	Spad 4249	CO=0.0	O2=20.3	Ch4=0.3
		Air flow going in-by with smoke tube.			
		18'X6'10" 10 feet = 22 seconds			
		24 feet per-minute			
1-23-06	6:50 P.M.	Team Leaving for FAB.			
1-23-06	7:05 P.M.	Teams at FAB Barbour going in-by Viper FAB.			
1-23-06	7:30 P.M.	Borehole	Ch4	O2	CO
		#1	0.0	20.9	0.0
		#2	0.0	20.9	0.0
		#4	0.2	20.9	0.0
		#5	0.2	20.9	0.0
		#7	0.4	20.7	0.0
		Return	0.0	20.9	0.0
		105,944 CFM Temp. 39 Degrees, Bar. 30.07 up , WG 1.8			
		Viper A Team in-by, Barbour Back up Team, Viper B Surface			
1-23-06	7:50 P.M.	Out-by spad 4221 Photo #1 1-23-06			
		Stopping rebuilt material necessary for a build removed.			
1-23-06	7:30 P.M.	Build started out-by 4221 Barbour Team Building.			

1-23-06	8:15 P.M.	Stopping built at 4221			
1-23-06	8:20 P.M.	CO=0.0	O2=20.9	Ch4=0.0	Block #3 A-2 Panel
1-23-06	8:24 P.M.	Started build block #5 of A-2			
1-23-06	8:26 P.M.	½ built blocks then taking air analysis.			
1-23-06	8:30 P.M.	CO=0.0	O2=20.7	Ch4=0.1	
1-23-06	8:44 P.M.	Completed build block #5.			
1-23-06	8:30 P.M.	Borehole	Ch4	O2	CO
		#1	0.0	20.9	0.0
		#2	0.0	20.9	0.0
		#4	0.2	20.9	0.0
		#5	0.2	20.9	0.0
		#7	0.4	20.7	0.0
		Return	0.0	20.7	0.0
		109,424 CFM Temp. 39 Degrees, Bar. 30.07 up , WG 1.8			
		Block 8 of A-2 Panel CO=0.0 O2=20.6 Ch4=.2			
		Width 19'6"X7'3"=141 Area.			
		(12 seconds 10 feet)=45 feet per minute out-by direction.			
		6,345 CFM Cautioned team of block 31 entry 5 of the borehole.			
1-23-06	9:25 P.M.	Block 29 80% return stopping out in-by side is left blown towards the return.			
1-23-06	9:26 P.M.	CO=0.0	O2=20.9	Ch4=0.0	Air analysis Block 29
1-23-06	9:28 P.M.	Block 30 in place with man-door return side.			
1-23-06	9:30 P.M.	Block 31 Stopping blown out towards return.			
		CO=0.0	Ch4=0.0	O2=20.9	
1-23-06	9:37 P.M.	Entry 2 to 1 water deep in #32 block encountered out into the intersection of #2.			
1-23-06	9:50 P.M.	Water all the way to the face in #1 entry of Mains.			
1-23-06	9:50 P.M.	Block 32	CO=0.0	O2=20.7	Ch4=0.0

Between 3/2 entry 18'X7'6" 12 sec. 10 feet  
Smoke test= 6,075 CFM  
Block 31 between #3/2 entry CO=0.0 O2=20.8 Ch4=0.0.  
Smoke tube test 19'X6'3/4" X10 at 13 seconds 114 = 4,674  
CFM  
FAB to unplug phone from batteries.  
FAB instructed to disconnect # 1 motor and unplug batteries.

1-23-06	9:30 P.M.	Borehole	Ch4	O2	CO
		#1	0.0	20.9	0.0
		#2	0.0	20.9	0.0
		#4	0.2	20.9	0.0
		#5	0.2	20.9	0.0
		#7	0.4	20.7	0.0
		Return	0.0	20.7	0.0
		109,210 CFM Temp. 36 Degrees, Bar. 30.07 level , WG 1.8			
1-23-06	10:15 P.M.	Unplugged the phone. Starting Outside.			
1-23-06	10:55 P.M.	Man-trip outside-unplugged.			
1-24-06	6:00 A.M.	Pre-shift started.			
1-24-06	6:13 A.M.	Albert Lechiara, Jr. briefed John Collins but Mr. Lechiara did not record notes.			
1-24-06	7:12 A.M.	#37 Outside			
1-24-06	7:30 A.M.	Team briefing Phase #4.			
1-24-06	7:50 A.M.	Joe Myers said company was starting dewatering pump in hole #5. Barbour B=Working Viper A=Back-up Viper B=Surface			
1-24-06	8:10 A.M.	Crews entered the mine. Mantrips 9 and 37.			
1-24-06	8:20 A.M.	Borehole	Ch4	O2	CO
		#1	0.0	20.9	0.0
		#2	0.0	20.9	0.0
		#4	0.2	20.9	0.0

		#5	0.2	20.9	0.0
		#7	0.4	20.7	0.0
		Return	0.0	20.7	0.0
		106,642 CFM Temp. 36 Degrees, Bar. 30.07 level , WG 1.8			
1-24-06	8:35 A.M.	FAB at Break 49. Going to 1 Left to get carts.			
1-24-06	8:40 A.M.	Trubie Run at 38 of 3 belt H2O getting high.			
1-24-06	9:10 A.M.	Out of 1 Left moving to 52 repairing phone line.			
1-24-06	9:28 A.M.	Moving FAB to 52, communication to 52 complete.			
1-24-06	9:35 A.M.	Crew moving to 53 block of 4 belt then over to #2 (2Left Return) putting sample tube through 52.			
		Sample pump is in position in 2 Left return. Ask to give status of return stopping line. Going to build #1 entry of mains first.			
1-24-06	9:50 A.M.	52 Break Entry #2 CO=0.0 Ch4=0.0 O2=20.6			
		Stopping 53 – 57 Gone.			
1-24-06	10:10 A.M.	Company made request to remove trash which was brought outside. Trash is not part of event (explosion). Trash viewed in pit was paper boxes and foam packs used during rescue efforts.			
1-24-06	10:22 A.M.	Stopping at 3907 still good. Return 53 to 57 out.			
1-24-06	10:30 A.M.	Team going to check entries 1-9 between blocks 61 and 62 of the North East Mains.			
1-24-06	10:25 A.M.	Entry	Ch4	O2	CO
		#1	0.2	20.9	0.0
		#2	0.2	20.9	0.0
		#3	0.2	20.9	0.0
		#4	0.2	20.9	0.0
		#5	0.2	20.9	0.0
		#6	0.0	20.9	0.0
		#7	0.0	20.9	0.0
		#8	0.0	20.7	0.0
		#9	0.0	20.9	0.0

		Entry Number								
		1	2	3	4	5	6	7	8	9
		0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
1-24-06	10:45 A.M.	#1 Entry of North East Mains between 61 and 62 build complete.								
1-24-06	10:50 A.M.	#2 Entry complete.								
1-24-06	11:00 A.M.	Return 111,940 CFM								
1-24-06	11:02 A.M.	#3 Entry complete.								
1-24-06	11:10 A.M.	#4 Entry complete.								
1-24-06	11:18 A.M.	#5 Entry complete.								
1-24-06	11:46 A.M.	#6 Entry air lock complete.								
1-24-06	11:53 A.M.	#7 Entry build complete.								
1-24-06	12:00 P.M.	#9 Entry – curtain hung to ladder construction.								
		CO=0.0		O2=20.9		Ch4=.2		4,620CFM		
		.05 Met Gauge								
1-24-06	11:00 A.M.	Told Mark Wilfong phase 3 complete-Have built 1-2-3 at North East								
		Mains 61 / 62. Ask him to update Terry Farley. Ask him to have Doug Conaway call Sam Kitts.								
		471-3300 ----- 606-922-0400								
		#9 Entry air reading North East Mains.								
1-24-06	12:09 P.M.	CO=0.0		O2=20.7		Ch4=0.0				
		Smoke tube 7'X18"=43 seconds per 10 feet 5,418 CFM								
1-24-06	12:30 P.M.	Motor crew cleared to enter mine Dave Densmore Mine Rescue Member.								
		Monitor pump at 52 Return.								
		CO=0.0		O2=20.9		Ch4=0.0				
1-24-06	1:30 P.M.	Entry		Ch4		O2		CO		
		#1		0.2		20.4		0.0		
		#2		0.2		20.4		0.0		
		#3		0.2		20.5		0.0		



#4	0.2	20.5	0.0
#5	0.2	20.5	0.0
#6	0.0	20.6	0.0
#7	0.0	20.6	0.0
#8	0.0	20.6	0.0

All entries 1-8 no air movement at curtains.

1-24-06	1:36 P.M.	Team instructed to pull out return to 53 block to start builds again. Team instructed to check Mag. Gauge at return.
1-24-06	1:45 P.M.	Chester Runyon told to enter mine to move motor and flat car. Enter with team at approx. 2:00 P.M. Exit when team exits mine just leave motor for teams to move up.
1-24-06	1:57 P.M.	Agreed on putting power to #9 block on 4 belt electricians to call out permissibility OK before reinstalling power.
1-24-06	2:00 P.M.	Team has started build at 53 block. Ch4=0.0      O2=20.9      CO=0.0      at 52 return.
1-24-06	1:50 P.M.	Briefed teams entering mine.
1-24-06	2:10 P.M.	Motor entering mine #4 motor. Jim Allender.
1-24-06	2:20 P.M.	Return – Finished (53) Pump reading 52 break. CO=0.0      Ch4=0.0      O2=20.9
1-24-06	2:30 P.M.	Robert True, Jr. District Inspector (on-duty) Curtains across 1-9 of North East Mains are built, including air lock. Working on phase 4. Return sample tube block 52. Meg. Tube #5 entry of North East Mains.
1-24-06	2:25 P.M.	Block 54 stopping complete. Meg. .05 CO=0.0      O2=20.9      Ch4=0.0
1-24-06	2:35 P.M.	Block 55 completed. O2=20.9 Ch4 0.0      CO=0.0
1-24-06	2:45 P.M.	RLT = FAB request Barbour County Team come outside, Viper A team advance to re-supply areas of stopping- No work on ventilation being performed due to Virgil Brown, MSHA and Pete Capaldo ICG going underground for electrical work. 4 Belt 9

Block return pump and track – permissibility check and quality of air. State Jeff Bennett / John Hall, MSHA Tony Sturgil / Virgil Brown.

1-24-06	3:10 P.M.	Borehole	Ch4	O2	CO
		#1	0.0	20.9	0.0
		#2	0.0	20.9	0.0
		#4	0.2	20.9	0.0
		#5	0.2	20.9	0.0
		#7	0.5	20.7	0.0
		Return	0.0	20.7	0.0

107,900 CFM Temp. 45 Degrees, Bar. 29.73 falling , WG 1.8

1-24-06 3:20 P.M. Mantrip inside with State, MSHA, change out. Ventilation device Old 2 Left.

1-24-06	3:20 P.M.	Entry	Ch4	O2	CO
		#1	0.2	20.7	0.0
		#2	0.2	20.6	0.0
		#3	0.2	20.6	0.0
		#4	0.2	20.6	0.0
		#5	0.2	20.5	0.0
		#6	0.0	20.7	0.0
		#7	0.0	20.7	0.0
		#8	0.0	20.9	0.0
		#9	0.0	20.9	0.0

7,140 CFM

1-24-06 3:30 P.M. Team retreating back from FAB from ventilation devices old 2 Left.

1-24-06 4:00 P.M. Circuits for electrical check – Changed out State and MSHA.

1-24-06 4:25 P.M. Return analysis Belt 4 Block 52 = CO=0.0 O2=20.9 Ch4=0.0

1-24-06	4:00 P.M.	Borehole	Ch4	O2	CO
		#1	0.0	20.9	0.0

		#2	0.0	20.9	0.0
		#4	0.0	20.9	0.0
		#5	0.0	20.9	0.0
		#7	0.4	20.6	0.0
		Return	0.0	20.5	0.0
		111,360 CFM Temp. 46 Degrees, Bar. 29.69 fallin , WG 1.8			
1-24-06	4:35 P.M.	High voltage splitter box and transformers are energized. Splitter box at 2 head. Ventilation control is knocked out, blown towards the #2 Left unit.			
1-24-06	5:00 P.M.	Borehole	Ch4	O2	CO
		#1	0.0	20.9	0.0
		#2	0.0	20.9	0.0
		#4	0.0	20.9	0.0
		#5	0.0	20.9	0.0
		#7	0.4	20.9	0.0
		Return	0.0	20.7	0.0
		112,896 CFM Temp. 46 Degrees, Bar. 29.69 steady, WG 1.8			
1-24-06	5:22 P.M.	Pete Capaldo / Virgil Brown – State, personnel outside.			
1-24-06	5:25 P.M.	Return CO=0.0 O2=20.9 Ch4=0.0			
1-24-06	5:30 P.M.	Track is #5 T and T pump in return. Belt #3 Block 22. Get power 1st right block 17. Power is on to the shop, belt 4 #9 Block Pete Capaldo electrician briefing.			
1-24-06	5:35 P.M.	Block 56, #6 Ventilation device has sample tube, Digital. FAB=.3 to .6 Mag. Gauge			
1-24-06	5:45 P.M.	Block 56 stopping complete. CO=0.0 O2=20.9 Ch4=0.0			
1-24-06	5:46 P.M.	Entry #3 Block 56/57 Built stopping complete.			
1-24-06	6:00 P.M.	CO=0.0 O2=20.9 Ch4=0.0			
		Entry #3 Block 56/57 Building stopping complete.			
1-24-06	6:01 P.M.	Entry #2 Block 56/57 Start Build.			
1-24-06	6:00 P.M.	Borehole	Ch4	O2	CO

		#1	0.0	20.9	0.0
		#2	0.0	20.9	0.0
		#4	0.0	20.9	0.0
		#5	0.0	20.9	0.0
		#7	0.4	20.7	0.0
		Return	0.0	20.7	0.0
		109,536 CFM Temp. 46 Degrees, Bar. 29.68, WG 1.8			
1-24-06	6:15 P.M.	Block 56/57 Entry #2 Built. CO=0.0 O2=20.9 Ch4=0.0			
1-24-06	6:16 P.M.	Block 57 between #2/#3 Start Build. CO=0.0 O2=20.9 Ch4=0.0			
1-24-06	6:35 P.M.	Block 57/58 Entry #3, working on stopping.			
1-24-06	6:55 P.M.	Completed. CO=0.0 O2=20.9 Ch4=0.0			
		Block 57/58 Entry #3.			
1-24-06	6:56 P.M.	Block 57/58 Entry #4 started.			
1-24-06	7:20 P.M.	Block 57/58 Entry 4 Built. Brian Mills called check in to Command Center.			
1-24-06	7:00 P.M.	Borehole	Ch4	O2	CO
		#1	0.0	20.9	0.0
		#2	0.0	20.9	0.0
		#4	0.2	20.7	0.0
		#5	0.2	20.7	0.0
		#7	0.4	20.7	0.0
		Return	0.0	20.7	0.0
		113,120 CFM Temp. 46 Degrees, Bar. 29.67 falling, WG 1.8			
		Rain, 30 MPH winds.			
1-24-06	7:55 P.M.	Entry	Ch4	O2	CO
		#1	0.0	20.7	0.0
		#2	0.0	20.7	0.0
		#3	0.0	20.6	0.0
		#4	0.0	20.6	0.0
		#5	0.0	20.6	0.0

		#6	0.0	20.7	0.0
		#7	0.0	20.7	0.0
		#8	0.0	20.7	0.0
		#9	0.0	20.7	0.0
		At regulator to bleeders old 2 Left 7,194 CFM			
1-24-06	8:02 P.M.	Traveling into 2nd Left 5 stopping in 6 stopping in 7 Block out return.			
1-24-06	8:05 P.M.	#7 Man-trip t 52 block on 4 belt. Check pumps on way in Teddy Hickman operating the man-trip. #7 Block stopping Pushed to the return.			
1-24-06	8:00 P.M.	Borehole	Ch4	O2	CO
		#1	0.0	20.9	0.0
		#2	0.0	20.9	0.0
		#4	0.2	20.9	0.0
		#5	0.2	20.9	0.0
		#7	0.4	20.7	0.0
		Return	0.0	20.7	0.0
		111,776 CFM Temp. 46 Degrees, Bar. 29.76 falling, WG 1.8 Rain/snow, 30 MPH winds.			
		Taken in-by #7 block 2 Left			
1-24-06	8:15 P.M.	Entry	Ch4	O2	CO
		#1	0.2	20.6	0.0
		#2	0.0	20.9	0.0
		#3	0.0	20.7	0.0
		#4	0.0	20.7	0.0
		#5	0.0	20.6	0.0
					CFM
					5,760
					3,720
					Out-by
					Out-by
					In-by
1-24-06	9:00 P.M.	Mag. Reading .03 at #5 old seal. Digital 5949.			
1-24-06	9:01 P.M.	#7 Block in 2nd Left Start building # Block 7.			
1-24-06	9:05 P.M.	Breaker was on pump not operating block 22 of 3 belt.			

1-24-06	9:00 P.M.	Borehole	Ch4	O2	CO
		#1	0.0	20.9	0.0
		#2	0.0	20.9	0.0
		#4	0.2	20.9	0.0
		#5	0.2	20.9	0.0
		#7	0.4	20.7	0.0
		Return	0.0	20.7	0.0
		109,760 CFM Temp. 36 Degrees, Bar. 29.78 , WG 1.8			
1-24-06	9:29 P.M.	#7 Block complete CO=0.0 Ch4=0.0 O2=20.5			
1-24-06	9:35 P.M.	FAB Block 22 of Belt 4 pump in return-magnehelic.			
		Viper A leaving FAB for the outside. Block 52 belt 4.			
1-24-06	9:45 P.M.	Viper B in-by working. Barbour A- FAB back-up.			
		Ohio B Surface.			
1-24-06	10:05 P.M.	Man-trip #7 on surface Viper A Team. Man-trip #7 on charge			
		outside.			
		Borehole	Ch4	O2	CO
		#1	0.0	20.9	0.0
		#2	0.0	20.9	0.0
		#4	0.2	20.7	0.0
		#5	0.2	20.7	0.0
		#7	0.4	20.6	0.0
		Return	0.0	20.9	0.0
		110,208 CFM Temp. 36 Degrees, Bar. 29.79 , WG 1.8			
1-24-06	10:16 P.M.	Block 6/7 2nd Left return.			
		#1 entry	CO=0.0	Ch4=.2	O2=20.2
			11,183 CFM	Out-by	
		#2 entry	CO=0.0	Ch4=.2	O2=200.0 11,172
		CFM	Out-by		
		#3 entry	In-by		
		#4 entry	In-by		

		#5 entry	In-by		
		Block 5/6 on 2nd Left			
		#3 entry	In-by		
		#4 entry	In-by		
		#5 entry	In-by		
1-24-06	10:55 P.M.	FAB will be moved from 4 belt block 52.			
1-24-06	11:00 P.M.	Briefed Albert Lechiara, Jr.			
		Command Center Ty Coleman, Ed Rannenewburg, John Collins, J. Brady, Al Lechiara, Butch Travis.			
1-24-06	11:00 P.M.	Borehole	Ch4	O2	CO
		#1	0.0	20.9	0.0
		#2	0.0	20.9	0.0
		#4	0.2	20.7	0.0
		#5	0.2	20.6	0.0
		#7	0.2	20.6	0.0
		Return	0.0	20.9	0.0
		108,080 CFM			
1-24-06	11:15 P.M.	Fresh Air Base 11:15 –11:31 FAB est. Hoses finished – Mag. Reading Digital (.01). Reg. .03			
1-24-06	11:40 P.M.	CO=0.0 O2=20.7 Ch4=0.0 Return #8 stopping – #9 Return stopping, #10 Return stopping destroyed. Scoop battery			
1-24-06	11:45 P.M.	CO=0.0 O2=20.6 Ch4=0.0			
1-24-06	11:45 P.M.	Air flow going toward return air flow. #7 Man-trip from outside to in mine, FAB. Fresh Air Dimensions. #10 build – 18'2"X7'9"			
1-25-06	12:00 A.M.	Borehole	Ch4	O2	CO
		#1	0.0	20.9	0.0
		#2	0.0	20.9	0.0
		#4	0.3	20.7	0.0
		#5	0.3	20.7	0.0
		#7	0.5	20.6	0.0

		Return	0.0	20.9	0.0
		118,384 CFM			
1-25-06	12:15 A.M.	#10 completed. Built Quality Reading at Build.			
		CO=0.0	O2=20.2	Ch4=0.0	
		Air flow in-by advance.			
1-25-06	12:20 A.M.	Pump CO=0.0	O2=20.6	Ch4=0.0	at FAB. 5/6 entry
		.03 Reg. Meg. #11 - #12 return stopping destroyed.			
		Air flow to return Dimensions of #12 build. 18'11"X8'4"			
		#11 stopping.			
1-25-06	12:45 A.M.	#7 Man-trip FAB to outside. Attn. check pump foot valve.			
1-25-06	12:55 A.M.	#12 stopping built. Quality reading #12.			
		CO=0.0	O2=20.7	Ch4=0.0	Airflow in-by. Advance.
1-25-06	12:59 A.M.	#13 stopping = good. #14 stopping = good. #15 stopping			
		destroyed.			
		CO=0.0	O2=20.5	Ch4=0.0	Airflow toward return.
		Blown toward return, built #15. Dimensions 17'WX7'9"H			
1-25-06	1:00 A.M.	Borehole	Ch4	O2	CO
		#1	0.0	20.9	0.0
		#2	0.0	20.9	0.0
		#4	0.3	20.7	0.0
		#5	0.3	20.7	0.0
		#7	0.5	20.6	0.0
		Return	0.0	20.9	0.0
		117,936 CFM			
1-25-06	1:15 A.M.	Motor and #7 Man-trip at Pit-mouth.			
1-25-06	1:25 A.M.	#15 stopping done.	CO=0.0	O2=20.6	Ch4=0.0
		Airflow in-by. #17 door damaged advance, don't pass #22 Block			
		#17 door closed.			
		#18 good stopping.			
		#19 good stopping, charger.			



#20 block good stopping, #20 - #21 scoop.  
#21 good stopping.  
#22 good stopping, advance to #23, no door.  
#23 no door-return reading to FAB.

1-25-06 1:42 A.M. Call when get to location #17 door repaired.

1-25-06 1:38 A.M. Battery man-trip left alone. Leave everything alone, move FAB from 5 to 6 to install Meg. Leaving tube at 2 Left. Will move FAB at break #61 North East Mains. FAB Viper Team.

1-25-06 2:00 A.M. Not enough tube to go from 5 to 6, to Fresh Air Base Team. More tube will be brought for new FAB #61 block.

1-25-06 2:00 A.M. All readings same.

Borehole	Ch4	O2	CO
#1	0.0	20.9	0.0
#2	0.0	20.9	0.0
#4	0.3	20.7	0.0
#5	0.3	20.7	0.0
#7	0.5	20.6	0.0
Return	0.0	20.9	0.0

117,936 CFM

1-25-06 2:23 A.M. Barbour B at pit-mouth waiting for instruction. Back-up for Barbour  
Out-by A #7 man-trip from outside to FAB

1-25-06 2:51 A.M. #7 Leave out back to bottom

1-25-06 2:55 A.M. Viper B coming outside #17 jeep. Team in-by Barbour A. Team  
Team back-up Barbour B. Surface Ohio B.

1-25-06 3:00 A.M. Air Reading return 116,816 CFM.

1-25-06 3:21 A.M. Barbour B team moving man-trip from FAB to New FAB #61.  
#7 man-trip outside. 61 block Barbour A at track entry located #6  
entry. FAB all established, meg., reading return reading.  
O2=20.9 CO=0.0 Ch4=0.3

1-25-06	3:37 A.M.	In-by airlock door quality check, O2=20.9 Ch4=0.0 Barbour County A, watch R/R extreme caution left handed to No. 1. #1 entry monitor detectors all the way. #2 entry spad 3977. No 2 entry of old 2 left, #2 break.
1-25-06	3:55 A.M.	Spad 4033 stopping out. Spad 4044 in-by crosscut located a fall top bad. #2 stopping blown out.
1-25-06	3:55 A.M.	Men advance 4077. All stoppings out. Get quality. Stopping blown toward 1,2,3,4, stopping blown toward No. 1 entry. #5,6 blown toward right. No. 7 and No. 8 blown toward right block. CO=0.0 O2=20.2 Ch4=0.0 Air moving in-by. #2 entry 9 stopping blown toward #3 entry.
1-25-06	4:13 A.M.	#10 stopping blown toward #2 entry. Quality No. 2 1370 spad #. Reading taken in-by 3701. Block #11 blown out toward #2 entry. #12 block #2 entry CO=0.0 O2=20.6 Ch4=.4 air in-by.
1-25-06	4:25 A.M.	Team back to FAB. Water #12 break between 3-4 blown toward #3 entry. Spad 3977 blown out out-by.
1-25-06	4:59 A.M.	FAB all team members accounted for and retreating to surface. All equipment, sampling tube, phones, left in place.
1-25-06	5:00 A.M.	All readings stay the same except return 117,824 CFM.
1-25-06	5:05 A.M.	#37 man-trip, #9 man-trip, and a motor to bottom from 2 left.
1-25-06	5:42 A.M.	#9 and #37 and motor outside. Mine clear all people outside.

# **APPENDIX 5**

## **The Investigation**

### **(5.1) Statistics and Fact-Finding**

- **Inspections and Violations**
- **Victim and Accident Information**
- **Listing of Interviewers**
- **Listing of Individuals Interviewed**

West Virginia Office of Miners' Health, Safety and Training  
**INSPECTION REPORT**

Record No. IM-154 Date: March 13, 2006 Regular Inspection No.: \_\_\_\_\_

Case No. 129-0364-2006 Inspector Number: 129

Facility Type	Type of Inspection	
Underground: <u>X</u>	Regular: _____	Electrical: <u>X</u>
Surface: _____	Idle*: _____	Shaft & Slope: _____
Contractor: _____	Investigation*: <u>X</u>	Roof Control: _____
Preparation: _____	Complaint*: _____	BIT/ JSA: _____ (If this block is checked please use bit/jsa inspection form)
Quarry: _____	Other*: _____	

Company Name: Anker WV Mining Co. WV Permit No.: U-2016-98B

Mine Name: Sago Mine Phone: 473-1676 Contractor ID: \_\_\_\_\_

Mine Location: Sago County: Upshur

Company Address: Rt. 9, Box 507, Buckhannon, WV Zip: 26201

No. of Employees: 138 No. of Shifts: 3 No. of Sections: 2

Shifts Inspected: Day: 25 Evening: 1 Midnight: 4 Tot. Insp. Days: 30

Mine Foreman: Carl Crumrine Certificate No.: 25993 Miners Rep: Jeremy Tuler

**VIOLATIONS BY CATEGORY**

Mine Maps: _____	Coal Dust & Rock Dust: _____	Electricity: _____	25
Ventilation: _____	Roof, Face & Ribs: _____	Safeguards for Mech. Eq.: _____	
Equipment: _____	Explosives & Blasting: _____	Surface Structures & Prac: _____	
Foreman: _____	Protective Clothing: _____	Auger Mining: _____	
Fire Boss: _____	Transportation: _____	Underground Workings: _____	
Highwalls: _____	Excavating: _____	Tipples & Cleaning Plants: _____	
Drilling: _____	Dust (Surface): _____	Misc. Safety Provisions: _____	
Haulage: _____	Compressed Gases: _____	General Safety Provisions: _____	
First Aid: _____	Fire Protection: _____	Other Categories: _____	
Holting: _____			

**VIOLATIONS / ORDERS ISSUED:**

Orders: \_\_\_\_\_ Failure to Abate: \_\_\_\_\_ IPA: \_\_\_\_\_ 71-WC: \_\_\_\_\_

Total Violations Issued: 25 Total Violations Abated: 25

**COMMENTS:**

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

Investigation of an explosion that occurred on 1/02/06.

Mark Wilfong  
Inspector-at-large

John Scott #129  
Inspector and number

IF-O18  
Revised 11-02

STATE OF WEST VIRGINIA

OFFICE OF  
MINERS' HEALTH, SAFETY AND TRAINING

1615 Washington Street East  
Charleston, West Virginia 25311-2126

White- Company  
Blue -Inspector  
Green -Charleston  
Canary -Regional Office  
Pink- Post  
Goldenrod -Rep of Mines

Region 1  
Case No. 129-0364-2006  
Violation No. 1

NOTICE OF VIOLATION

Company / Operator Anker WV Mining Co. Contractor: Yes      No X

Permit Number U-2016-98B Mine Name Sago

Date of Issue Jan. 27, 2006 Time 11:40 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 40(26) and/or West Virginia Administrative Regulation:

Title     , Series     , Section      exists as follows: Adequate short circuit

protection is not being provided for the main fan control circuit. A fuse in the control  
circuit was bridged over with copper wire.

Type of Issuance: N.O.V. X Order     

Area or equipment (if order is issued):     

The foregoing violation shall be totally abated by 7:50 X a.m.      p.m. on Feb. 25 2006

The foregoing violation was totally abated by 7:50 X a.m.      p.m. on Feb. 25 2006

Action taken to abate the violation: A fuse was installed and the jumper wire was removed.

Company / Operator Agent Served: Larry Dean

Authorized Representative: John Scott Inspector No. 129

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) X Reasonably likely (10)      Occurred (20)     

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

Permanently disabling (15)      Fatal (20)     

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

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

Knowing Violation: No      Yes      Repeat     

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

No compliance (extenuating circumstances) (0%)      Extra effort (-15%)

IF-018  
Revised 11-02

STATE OF WEST VIRGINIA

OFFICE OF  
MINERS' HEALTH, SAFETY AND TRAINING

1615 Washington Street East  
Charleston, West Virginia 25311-2126

White- Company  
Blue -Inspector  
Green -Charleston  
Canary -Regional Office  
Pink- Post  
Goldenrod -Rep of Mines

Region 1  
Case No. 129-0364-2006  
Violation No. 2

NOTICE OF VIOLATION

Company / Operator Anker WV Mining Co. Contractor: Yes      No X  
Permit Number U-2016-98B Mine Name Sago  
Date of Issue Jan. 27, 2006 Time 12:30      A.M. X 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 40(20) and/or West Virginia Administrative Regulation: Title     , Series     , Section      exists as follows: The stacker belt and rock belt located on the surface are not being properly maintained. The control boxes are not properly labeled and do not indicate that two separate power sources are supplying each box.

Type of Issuance: N.O.V. X Order     

Area or equipment (if order is issued):     

The foregoing violation shall be totally abated by 12:15      a.m. X p.m. on Feb. 22 2006

The foregoing violation was totally abated by 12:15      a.m. X p.m. on Feb. 22 2006

Action taken to abate the violation: The control boxes were properly labeled.

Company / Operator Agent Served: Larry Dean

Authorized Representative: John Scott Inspector No. 129

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) 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) X Moderate (15)      High (20)       
Knowing Violation: No X Yes      Repeat       
Good Faith in Abatement: Lack of good faith (+15%)       
No compliance (extenuating circumstances) (0%) X Extra effort (-15%)

IF-018  
Revised 11-02

STATE OF WEST VIRGINIA

OFFICE OF  
MINERS' HEALTH, SAFETY AND TRAINING

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Charleston, West Virginia 25311-2126

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Region 1  
Case No. 129-0364-2006  
Violation No. 3

NOTICE OF VIOLATION

Company / Operator Anker WV Mining Co. Contractor: Yes    No X  
Permit Number U-2016-98B Mine Name Sago  
Date of Issue Jan. 27, 2006 Time 1:40    A.M. X 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 40(20) and/or West Virginia Administrative Regulation: Title   , Series   , Section    exists as follows: The No.8 575 volt

mantrip charger located on the surface is not being properly maintained. The electrical  
interlock switches for the front access doors were disconnected and would not de-energize  
the power when the doors were opened.

Type of Issuance: N.O.V. X Order   

Area or equipment (if order is issued):   

The foregoing violation shall be totally abated by    a.m.    p.m. on    20  

The foregoing violation was totally abated by 1:10 a.m. X p.m. on Feb. 22 2006

Action taken to abate the violation: The interlock switches were properly connected and will  
de-energize the circuit.

Company / Operator Agent Served: Larry Dean

Authorized Representative: John Scott Inspector No. 129

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) 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) X Low (10)    Moderate (15)    High (20)   

Knowing Violation: No X Yes    Repeat   

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

No compliance (extenuating circumstances) (0%) X Extra effort (-15%)

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STATE OF WEST VIRGINIA

OFFICE OF  
MINERS' HEALTH, SAFETY AND TRAINING

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Charleston, West Virginia 25311-2126

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Region 1  
Case No. 129-0364-2006  
Violation No. 4

NOTICE OF VIOLATION

Company / Operator Anker WV Mining Co. Contractor: Yes      No X  
Permit Number U-2016-98B Mine Name Sago  
Date of Issue Jan. 27 2006 Time 1:45      A.M. X 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 40(23)(25) and/or West Virginia Administrative Regulation: Title     , Series     , Section      exists as follows: The No.6 AWG cable

supplying power to the No.8 575 volt mantrip charger is not being adequately protected.  
The outer jacket of the cable has been damaged exposing insulated conductors where the cable  
passes through the metal side of the belt canopy.

Type of Issuance: N.O.V. X Order     

Area or equipment (if order is issued):     

The foregoing violation shall be totally abated by      a.m.      p.m. on      20     

The foregoing violation was totally abated by 1:25 a.m. X p.m. on Feb. 22 20 06

Action taken to abate the violation: The damaged place was repaired and additional material was  
installed to protect the canopy.

Company / Operator Agent Served: Larry Dean

Authorized Representative: John Scott Inspector No. 129

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) 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) X Low (10)      Moderate (15)      High (20)     

Knowing Violation: No X Yes      Repeat     

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

No compliance (extenuating circumstances) (0%) X Extra effort (-15%)



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STATE OF WEST VIRGINIA

OFFICE OF  
MINERS' HEALTH, SAFETY AND TRAINING

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Region 1  
Case No. 129-0364-2006  
Violation No. 5

NOTICE OF VIOLATION

Company / Operator Anker WV Mining Co. Contractor: Yes      No X  
Permit Number U-2016-98B Mine Name Sago  
Date of Issue Jan. 27, 20 06 Time 2:00      A.M. X 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 42(d) and/or West Virginia Administrative Regulation: Title     , Series     , Section      exists as follows: The underground telephone line is not being provided with a lightning arrester.

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

The foregoing violation shall be totally abated by      a.m.      p.m. on      20       
The foregoing violation was totally abated by 10:55 X a.m.      p.m. on March 2 20 06  
Action taken to abate the violation: A lightning arrester was installed in the underground telephone line.

Company / Operator Agent Served: Larry Dean

Authorized Representative: John Scott Inspector No. 129

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) 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) X Moderate (15)      High (20)       
Knowing Violation: No X Yes      Repeat       
Good Faith in Abatement: Lack of good faith (+15%)       
No compliance (extenuating circumstances) (0%) X Extra effort (-15%)

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STATE OF WEST VIRGINIA

OFFICE OF  
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Region 1  
Case No. 129-0364-2006  
Violation No. 6

NOTICE OF VIOLATION

Company / Operator Anker WV Mining Co. Contractor: Yes      No X  
Permit Number U-2016-98B Mine Name Sago  
Date of Issue Jan. 27, 20 06 Time 2:25 A.M. X 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 40(20) and/or West Virginia Administrative Regulation: Title     , Series     , Section      exists as follows: The No.1 575 volt belt

conveyor starter box is not being properly maintained. The neutral side (common) of the  
control transformer secondary is not grounded to the metal frame of the box. Also, the  
circuit breaker located inside the starter box is located near bare energized conductors.  
The circuit breaker cannot be operated from outside the box and no insulated barriers are  
provided next to the breakers.

Type of Issuance: N.O.V. X Order     

Area or equipment (if order is issued):     

The foregoing violation shall be totally abated by      a.m.      p.m. on      20     

The foregoing violation was totally abated by 1:45 a.m. X p.m. on Feb. 27 20 06

Action taken to abate the violation: The secondary of the transformer was grounded and insulated  
barriers are mounted over the energized conductors.

Company / Operator Agent Served: Larry Dean

Authorized Representative: John Scott Inspector No. 129

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) 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) X Low (10)      Moderate (15)      High (20)     

Knowing Violation: No X Yes      Repeat     

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

No compliance (extenuating circumstances) (0%) X Extra effort (-15%)

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STATE OF WEST VIRGINIA

OFFICE OF  
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Region 1  
Case No. 129-0364-2006  
Violation No. 7

NOTICE OF VIOLATION

Company / Operator Anker WV Mining Co. Contractor: Yes    No X  
Permit Number U-2016-98B Mine Name Sago  
Date of Issue Jan. 27 2006 Time 2:30    A.M. X 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 40(30) and/or West Virginia Administrative Regulation: Title   , Series   , Section    exists as follows: Lightning arrestors

are not being provided for the three 575 volt mantrip chargers located on the surface.

These chargers are supplied power from No.1 belt power center located at No.1 block underground. Also, the 110 volt No.3 track pump located at 10 block does not have lightning arrestors protection, this pump is supplied power from the fan house located on the surface.

Type of Issuance: N.O.V.    X Order   

Area or equipment (if order is issued):   

The foregoing violation shall be totally abated by    a.m.    p.m. on    20  

The foregoing violation was totally abated by 1:45 a.m. X p.m. on Feb. 24 2006

Action taken to abate the violation: The 3 mantrip chargers are now supplied power from the surface.

The 10 volt No.3 track pump is now supplied power from underground.

Company / Operator Agent Served: Larry Dean

Authorized Representative: John Scott Inspector No. 129

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) 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) X Moderate (15)    High (20)   

Knowing Violation: No X Yes    Repeat   

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

No compliance (extenuating circumstances) (0%) X Extra effort (-15%)

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STATE OF WEST VIRGINIA

OFFICE OF  
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Region 1  
Case No. 129-0364-2006  
Violation No. 8

NOTICE OF VIOLATION

Company / Operator Anker WV Mining Co. Contractor: Yes    No X

Permit Number U-2016-98B Mine Name Sago

Date of Issue Jan. 27, 2006 Time 2:45    A.M. X 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 40(26) and/or West Virginia Administrative Regulation: Title   , Series   , Section    exists as follows: Proper short circuit

protection is not being provided for the 575 volt #1 belt drive. The circuit breaker was set on 3000 amps, maximum allowed is 1561 amps for the single motor that was being used.

Type of Issuance: N.O.V. X Order   

Area or equipment (if order is issued):   

The foregoing violation shall be totally abated by    a.m.    p.m. on    20  

The foregoing violation was totally abated by 2:20 a.m. X p.m. on Feb. 22 2006

Action taken to abate the violation: The circuit breaker was set on 1500 amps.

Company / Operator Agent Served: Larry Dean

Authorized Representative: John Scott Inspector No. 129

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) X Reasonably likely (10)    Occurred (20)   

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

Permanently disabling (15)    Fatal (20)   

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

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

Knowing Violation: No X Yes    Repeat   

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

No compliance (extenuating circumstances) (0%) X Extra effort (-15%)

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STATE OF WEST VIRGINIA

OFFICE OF  
MINERS' HEALTH, SAFETY AND TRAINING

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Region 1  
Case No. 129-0364-2006  
Violation No. 9

NOTICE OF VIOLATION

Company / Operator Anker WV Mining Co. Contractor: Yes      No X  
Permit Number      Mine Name Sago  
Date of Issue Jan. 27, 20 06 Time 3:30      A.M. X 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 40(20) and/or West Virginia Administrative Regulation: Title     , Series     , Section      exists as follows: The No.3 110 volt track pump located at No.10 block, is not being properly maintained. The cable supplying power to this pump has the hot and neutral reversed and also has 68 volts on the frame ground. This pump and power circuit was removed from service and dangered off by mine management until all repairs can be made.

Type of Issuance: N.O.V. X Order     

Area or equipment (if order is issued):     

The foregoing violation shall be totally abated by      a.m.      p.m. on      20     

The foregoing violation was totally abated by 2:40 a.m. X p.m. on Feb. 22 20 06

Action taken to abate the violation: Repairs were made to the 110 volt cable.

Company / Operator Agent Served: Larry Dean

Authorized Representative: John Scott Inspector No. 129

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) 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) X Low (10)      Moderate (15)      High (20)     

Knowing Violation: No X Yes      Repeat     

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

No compliance (extenuating circumstances) (0%) X Extra effort (-15%)

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STATE OF WEST VIRGINIA

OFFICE OF  
MINERS' HEALTH, SAFETY AND TRAINING

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Region 1  
Case No. 129-0364-2006  
Violation No. 10

NOTICE OF VIOLATION

Company / Operator Anker WV Mining Co. Contractor: Yes    No x  
Permit Number U-2016-98B Mine Name Sago  
Date of Issue Jan. 28 20 06 Time 11:50 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 40(20) and/or West Virginia Administrative Regulation: Title   , Series   , Section    exists as follows: The No.3 battery

powered track motor located at the No.17 block motor charging station, is not being properly maintained. Both of the traction motor overloads have been bridged across making them in-  
effective. Also, one control fuse is bridged across with a piece of copper wire. This  
motor was removed from service by mine management until all repairs have been made.

Type of Issuance: N.O.V. x Order   

Area or equipment (if order is issued):   

The foregoing violation shall be totally abated by    a.m.    p.m. on    20   

The foregoing violation was totally abated by 1:15 a.m. x p.m. on Feb. 22 20 06

Action taken to abate the violation: New overloads were installed and a new fuse replaced the copper wire bridge.

Company / Operator Agent Served: Larry Dean

Authorized Representative: John Scott Inspector No. 129

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) 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) x Moderate (15)    High (20)   

Knowing Violation: No x Yes    Repeat   

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

No compliance (extenuating circumstances) (0%) x Extra effort (-15%)

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STATE OF WEST VIRGINIA

OFFICE OF  
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Region 1  
Case No. 129-0364-2006  
Violation No. 11

NOTICE OF VIOLATION

Company / Operator Anker WV Mining Co. Contractor: Yes    No X  
Permit Number U-2016-98B Mine Name Sago  
Date of Issue Jan. 29, 2006 Time 9:00 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 40(6) and/or West Virginia Administrative Regulation: Title   , Series   , Section    exists as follows: Dry insulating platforms (rubber mats) are not being provided at locations of circuits No.1 through No.7 on the No.1 belt power center located at 1 block.

Type of Issuance: N.O.V. X Order   

Area or equipment (if order is issued):   

The foregoing violation shall be totally abated by    a.m.    p.m. on    20  

The foregoing violation was totally abated by 2:15 a.m. X p.m. on Feb. 22 2006

Action taken to abate the violation: Insulating material was installed at the affected places.

Company / Operator Agent Served: Larry Dean

Authorized Representative: John Scott Inspector No. 129

**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) 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) X Moderate (15)    High (20)   

Knowing Violation: No X Yes    Repeat   

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

No compliance (extenuating circumstances) (0%) X Extra effort (-15%)

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STATE OF WEST VIRGINIA

OFFICE OF  
MINERS' HEALTH, SAFETY AND TRAINING

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Region 1  
Case No. 129-0364-2006  
Violation No. 12

NOTICE OF VIOLATION

Company / Operator Anker WV Mining Co. Contractor: Yes      No X  
Permit Number U-2016-98B Mine Name Sago  
Date of Issue Jan. 29, 2006 Time 12:15      A.M. X 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 40(73) and/or West Virginia Administrative Regulation: Title     , Series     , Section      exists as follows: A fail-safe ground check circuit is not being provided for the 575 volt No.2 belt drive. The circuit breaker would not trip when the ground conductor was broken. This belt drive was not in use when tested, but was not tagged out of service.

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

The foregoing violation shall be totally abated by      a.m.      p.m. on      20       
The foregoing violation was totally abated by 12:30 a.m. X p.m. on Jan. 29 20 06  
Action taken to abate the violation: Adjustments were made to the monitor circuit and now the circuit breaker will trip when the ground conductor is broken.

Company / Operator Agent Served: Larry Dean  
Authorized Representative: John Scott Inspector No. 129

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) X Reasonably likely (10)      Occurred (20)       
Severity of Injury Expected: None: \*(0)      No lost work days \*(6) X Lost or restricted days (11)       
Permanently disabling (15)      Fatal (20)       
No. of Persons Potentially Affected: 0 (0) X 1 (1)      2 (2)      3 (4)      4-5 (6)      6-9 (8)      9+ (10)       
Negligence: None (0) X Low (10)      Moderate (15)      High (20)       
Knowing Violation: No X Yes      Repeat       
Good Faith in Abatement: Lack of good faith (+15%)       
No compliance (extenuating circumstances) (0%) X Extra effort (-15%)



IF-O18  
Revised 11-02

STATE OF WEST VIRGINIA

OFFICE OF  
MINERS' HEALTH, SAFETY AND TRAINING

1615 Washington Street East  
Charleston, West Virginia 25311-2126

White- Company  
Blue -Inspector  
Green -Charleston  
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Region 1  
Case No. 129-0364-2006  
Violation No. 13

NOTICE OF VIOLATION

Company / Operator Anker WV Mining Co. Contractor: Yes      No X  
Permit Number U-2016-98B Mine Name Sago  
Date of Issue Jan. 29, 20 06 Time 1:20      A.M. X 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 40(26) and/or West Virginia Administrative Regulation: Title     , Series     , Section      exists as follows: Adequate short circuit

and overload protection is not being provided for the #2 58 H.P. 480 volt submersible pump

located at 21 block. The control box for the pump was only used as a junction box and did  
not provide short circuit or overload protection for the pump.

Type of Issuance: N.O.V. X Order     

Area or equipment (if order is issued):     

The foregoing violation shall be totally abated by      a.m.      p.m. on      20     

The foregoing violation was totally abated by 9:00 X a.m.      p.m. on Feb. 14 20 06

Action taken to abate the violation: A new pump and control box, which provide short circuit and  
overload protection, have been installed.

Company / Operator Agent Served: Larry Dean

Authorized Representative: John Scott Inspector No. 129

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) X Reasonably likely (10)      Occurred (20)     

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

Permanently disabling (15)      Fatal (20)     

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

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

Knowing Violation: No X Yes      Repeat     

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

No compliance (extenuating circumstances) (0%) X Extra effort (-15%)

IF-O18  
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STATE OF WEST VIRGINIA

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Region 1  
Case No. 129-0364-2006  
Violation No. 14

NOTICE OF VIOLATION

Company / Operator Anker WV Mining Co. Contractor: Yes    No X  
Permit Number U-2016-98B Mine Name Sago  
Date of Issue Jan. 30, 20 06 Time 9:50 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 40(24)(25) and/or West Virginia Administrative Regulation: Title   , Series   , Section    exists as follows: The 3 single

conductor power wires supplying 575 volts to the No.3 belt drive starter box are not  
insulated adequately and fully protected. All 3 wires contain damaged insulation  
where they cross the track. Also, approximately 8 feet of these wires are lying on the  
mine floor and being walked on next to the belt power center.

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

The foregoing violation shall be totally abated by    a.m.    p.m. on    20     
The foregoing violation was totally abated by 10:30 X a.m.    p.m. on Feb. 23 20 06  
Action taken to abate the violation: A new cable was installed and it is also adequately  
protected from damage.

Company / Operator Agent Served: Ronnie Tenney

Authorized Representative: John Scott Inspector No. 129

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) 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) X 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%) X Extra effort (-15%)

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STATE OF WEST VIRGINIA

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Region 1  
Case No. 129-0364-2006  
Violation No. 15

NOTICE OF VIOLATION

Company / Operator Anker WV Mining Co. Contractor: Yes    No X  
Permit Number U-2016-98B Mine Name Sago  
Date of Issue Jan. 30, 20 06 Time 10:30 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 40(26) and/or West Virginia Administrative Regulation: Title   , Series   , Section    exists as follows: Proper short circuit protection is not being provided for the 575 volt Hydraulic Take-up unit for the No.3 belt conveyor. The circuit breaker was set on 345 amps, maximum allowed is 175 amps.

Type of Issuance: N.O.V. X Order   

Area or equipment (if order is issued):   

The foregoing violation shall be totally abated by    a.m.    p.m. on    20   

The foregoing violation was totally abated by 3:00 a.m. X p.m. on Feb. 23 20 06

Action taken to abate the violation: The Take-up circuit was changed to a smaller circuit breaker and now proper short circuit protection is being provided.

Company / Operator Agent Served: Ronnie Timney

Authorized Representative: John Scott Inspector No. 129

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) X Reasonably likely (10)    Occurred (20)   

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

Permanently disabling (15)    Fatal (20)   

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

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

Knowing Violation: No X Yes    Repeat   

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

No compliance (extenuating circumstances) (0%) X Extra effort (-15%)

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STATE OF WEST VIRGINIA

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Region 1  
Case No. 129-0364-2006  
Violation No. 16

NOTICE OF VIOLATION

Company / Operator Anker WV Mining Co. Contractor: Yes      No X  
Permit Number U-2016-98B Mine Name Sago  
Date of Issue Jan. 30, 20 06 Time 2:00      A.M. X 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 40(26) and/or West Virginia Administrative Regulation: Title     , Series     , Section      exists as follows: Proper short circuit

protection is not being provided for the following equipment:

1) The #4 575 volt 10 H.P. T & T pump located at 2 block #3 belt. The circuit breaker was set at 345 amps, maximum is 70 amps.

2) The 28 H.P. 480 volt pump located at 22 block #3 belt. The circuit breaker was set at 345 amps, maximum is 245 amps.

3) The 480 - 120 volt cutler Hammer Transformer located at 28 block 3 belt. The circuit breaker was set on 250 amps, maximum allowed for 1245 feet of #6 cable is 189 amps.

Type of Issuance: N.O.V.      Order     

Area or equipment (if order is issued):     

The foregoing violation shall be totally abated by      a.m.      p.m. on 20

The foregoing violation was totally abated by 1:00 a.m. X p.m. on Feb. 25 20 06

Action taken to abate the violation: The transformer was taken out of service. New breakers were installed for the 10 H.P. and 28 H.P. pumps.

Company / Operator Agent Served: Ronnie Tinney

Authorized Representative: John Scott Inspector No. 129

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) X Reasonably likely (10)      Occurred (20)     

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

Permanently disabling (15)      Fatal (20)     

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

Negligence: None (0) X 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%) X Extra effort (-15%)

IF-018  
Revised 11-02

STATE OF WEST VIRGINIA

OFFICE OF  
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Region 1  
Case No. 129-0364-2006  
Violation No. 17

NOTICE OF VIOLATION

Company / Operator Anker WV Mining Co. Contractor: Yes    No X  
Permit Number U-2016-98B Mine Name Sago  
Date of Issue Jan. 30 20 06 Time 2:10    A.M. X 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 40(20) and/or West Virginia Administrative Regulation: Title   , Series   , Section    exists as follows: The No.5 480 volt

mantrip charger located at 3 belt 17 block is not being properly maintained. The installed  
emergency stop switch has been bridged across, making it ineffective. Also, the installed  
chemical fire deluge system has been bridged across making it ineffective.

Type of Issuance: N.O.V. X Order   

Area or equipment (if order is issued):   

The foregoing violation shall be totally abated by    a.m.    p.m. on    20   

The foregoing violation was totally abated by 2:05 a.m. X p.m. on Feb. 24 20 06

Action taken to abate the violation: Repairs were made to the emergency stop switch and the fire deluge  
system.

Company / Operator Agent Served: Larry Dean

Authorized Representative: John Scott Inspector No. 129

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) X Reasonably likely (10)    Occurred (20)   

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

Permanently disabling (15)    Fatal (20)   

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

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

Knowing Violation: No X Yes    Repeat   

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

No compliance (extenuating circumstances) (0%) X Extra effort (-15%)

IF-018  
Revised 11-02

STATE OF WEST VIRGINIA

OFFICE OF  
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Region 1  
Case No. 129-0364-2006  
Violation No. 18

NOTICE OF VIOLATION

Company / Operator Anker WV Mining Co. Contractor: Yes    No X  
Permit Number U-2016-98B Mine Name Sago  
Date of Issue Jan. 30, 20 06 Time 2:30    A.M. X 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 40(26) and/or West Virginia Administrative Regulation:

Title   , Series   , Section    exists as follows: The 128 volt DC dual

pod Al-Lee rock duster, located at 17 block #3 belt is not being provided with short  
circuit and overload protection.

Type of Issuance: N.O.V. X Order   

Area or equipment (if order is issued):   

The foregoing violation shall be totally abated by    a.m.    p.m. on    20   

The foregoing violation was totally abated by 2:00 a.m. X p.m. on Feb. 24 20 06

Action taken to abate the violation: Dual element fuses were installed to provide short circuit and  
overload protection.

Company / Operator Agent Served: Ronnie Tinney

Authorized Representative: John Scott Inspector No. 129

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) 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) X Moderate (15)    High (20)   

Knowing Violation: No X Yes    Repeat   

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

No compliance (extenuating circumstances) (0%) X Extra effort (-15%)

IF-O18  
Revised 11-02

STATE OF WEST VIRGINIA

OFFICE OF  
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Region 1  
Case No. 129-0364-2006  
Violation No. 19

NOTICE OF VIOLATION

Company / Operator Anker WV Mining Co. Contractor: Yes      No X  
Permit Number U-1016-98B Mine Name Sago  
Date of Issue Jan. 31, 2006 Time 12:00      A.M. X 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 40(25) and/or West Virginia Administrative Regulation: Title     , Series     , Section      exists as follows: Adequate insulation is not being provided for a damaged place in the 270 cable supplying 480 volts to the No. 1 distribution box, located at 12 block 4 belt. The outer jacket was missing exposing the insulated power conductors.

Type of Issuance: N.O.V. X Order     

Area or equipment (if order is issued):     

The foregoing violation shall be totally abated by      a.m.      p.m. on      20

The foregoing violation was totally abated by 12:30 a.m. X p.m. on Feb. 23 20 06

Action taken to abate the violation: The damaged place was adequately repaired.

Company / Operator Agent Served: Ronnie Tinney

Authorized Representative: John Scott Inspector No. 129

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) X Reasonably likely (10)      Occurred (20)     

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

Permanently disabling (15)      Fatal (20)     

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

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

Knowing Violation: No X Yes      Repeat     

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

No compliance (extenuating circumstances) (0%) X Extra effort (-15%)

IF-018  
Revised 11-02

STATE OF WEST VIRGINIA

OFFICE OF  
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Region 1  
Case No. 129-0364-2006  
Violation No. 20

NOTICE OF VIOLATION

Company / Operator Anker WV Mining Co. Contractor: Yes      No X  
Permit Number U-2016-98B Mine Name Sago  
Date of Issue Jan. 31 2006 Time 12:25 A.M. X 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 40(67) and/or West Virginia Administrative Regulation: Title     , Series     , Section      exists as follows: The circuit breaker and

receptacle supplying power to the No.6 slurry pump located at 22 block #6 belt were not  
properly indentified, they were identified as supplying power to the No.10 slurry pump.

Type of Issuance: N.O.V. X Order     

Area or equipment (if order is issued):     

The foregoing violation shall be totally abated by 12:30 a.m. X p.m. on Jan. 31 2006

The foregoing violation was totally abated by 12:30 a.m. X p.m. on Jan. 31 2006

Action taken to abate the violation: The circuit breaker and recetacle were properly identified.

Company / Operator Agent Served: Ronnie Tinney

Authorized Representative: John Scott Inspector No. 129

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) 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) X Low (10)      Moderate (15)      High (20)     

Knowing Violation: No X Yes      Repeat     

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

No compliance (extenuating circumstances) (0%) X Extra effort (-15%)



IF-018  
Revised 11-02

STATE OF WEST VIRGINIA  
OFFICE OF  
MINERS' HEALTH, SAFETY AND TRAINING  
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Region 1  
Case No. 129-0364-2006  
Violation No. 21

NOTICE OF VIOLATION

Company / Operator Anker WV Mining Co. Contractor: Yes    No X  
Permit Number U-2016-98B Mine Name Sago  
Date of Issue Feb. 1, 2006 Time 9:00 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 40(20) and/or West Virginia Administrative Regulation: Title   , Series   , Section    exists as follows: The No.4 575 volt

mantrip charger located on the surface is not being properly maintained. The installed emergency stop switch has been bridged across making it ineffective.

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

The foregoing violation shall be totally abated by 12:00    a.m. X p.m. on March 13 2006  
The foregoing violation was totally abated by 12:00    a.m. X p.m. on March 13 2006  
Action taken to abate the violation: The charger was removed from mine property.

Company / Operator Agent Served: Larry Dean

Authorized Representative: John Scott Inspector No. 129

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) X Reasonably likely (10)    Occurred (20)     
Severity of Injury Expected: None: \*(0)    No lost work days \*(6) X Lost or restricted days (11)     
Permanently disabling (15)    Fatal (20)     
No. of Persons Potentially Affected: 0 (0) X 1 (1)    2 (2)    3 (4)    4-5 (6)    6-9 (8)    9+ (10)     
Negligence: None (0) X Low (10)    Moderate (15)    High (20)     
Knowing Violation: No X Yes    Repeat     
Good Faith in Abatement: Lack of good faith (+15%)     
No compliance (extenuating circumstances) (0%) X Extra effort (-15%)

IF-O18  
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STATE OF WEST VIRGINIA

OFFICE OF  
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Region 1  
Case No. 129-0364-2006  
Violation No. 22

NOTICE OF VIOLATION

Company / Operator Anker WV Mining Co. Contractor: Yes    No X  
Permit Number U-2016-98B Mine Name Sago  
Date of Issue Feb. 1, 20 06 Time 10:30 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 40(65) and/or West Virginia Administrative Regulation: Title   , Series   , Section    exists as follows: Guarding was not

provided for a 15 foot length of 7200 volt H.V. cable at the 4C power center (27 block 4 belt).  
The cable was hung lower than the required 6.5 feet above the mine floor where miners are  
required to travel or work.

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

The foregoing violation shall be totally abated by 1:00    a.m. X p.m. on Feb. 23 20 06

The foregoing violation was totally abated by 1:00    a.m. X p.m. on Feb. 23 20 06

Action taken to abate the violation: Additional guarding was installed.

Company / Operator Agent Served: Ronnie Timney

Authorized Representative: John Scott Inspector No. 129

**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) 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) X Moderate (15)    High (20)   

Knowing Violation: No X Yes    Repeat   

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

No compliance (extenuating circumstances) (0%) X Extra effort (-15%)

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

White- Company  
Blue -Inspector  
Green -Charleston  
Canary -Regional Office  
Pink- Post  
Goldenrod -Rep of Mines

Region 1  
Case No. 129-0364-2006  
Violation No. 23

NOTICE OF VIOLATION

Company / Operator Anker WV Mining Co. Contractor: Yes    No x  
Permit Number U-2016-98B Mine Name Sago  
Date of Issue Feb. 1, 20 06 Time 12:00    A.M. x 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 40(20) and/or West Virginia Administrative Regulation:

Title   , Series   , Section    exists as follows: The No. 6 Fairchild 35C

scoop, located on the 1 Left Section is not being properly maintained. The operators deck  
mounted activator (CO2) cartridge and the dry chemical tank (CO2) cartridge are both empty.  
Also, the dry chemical (Ansul) tank is empty. These conditions make the fire suppression  
system inoperative.

Type of Issuance: N.O.V. x Order   

Area or equipment (if order is issued):   

The foregoing violation shall be totally abated by 1:00    a.m. x p.m. on Feb. 25 20 06

The foregoing violation was totally abated by 1:00    a.m. x p.m. on Feb. 25 20 06

Action taken to abate the violation: The empty CO2 cartridges were replaced and the dry chemical tank  
was refilled.

Company / Operator Agent Served: Larry Dean

Authorized Representative: John Scott Inspector No. 129

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) 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) x Moderate (15)    High (20)   

Knowing Violation: No x Yes    Repeat   

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

No compliance (extenuating circumstances) (0%) x Extra effort (-15%)

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STATE OF WEST VIRGINIA

OFFICE OF  
MINERS' HEALTH, SAFETY AND TRAINING

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Charleston, West Virginia 25311-2126

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Region 1  
Case No. 129-0364-2006  
Violation No. 24

NOTICE OF VIOLATION

Company / Operator Anker WV Mining Co. Contractor: Yes      No x  
Permit Number U-2016-98B Mine Name Sago  
Date of Issue Feb. 1, 20 06 Time 12:10      A.M. x 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 40(15) and/or West Virginia Administrative Regulation: Title     , Series     , Section      exists as follows: The No.6 Fairchild 35C

scoop located on the 1 Left Section is not being maintained in permissible condition. Both  
battery plugs were not properly assembled. The lock screws securing the plugs together were  
loose which allowed the sections of the plugs to unscrew.

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

The foregoing violation shall be totally abated by 1:10      a.m. x p.m. on Feb. 25 20 06

The foregoing violation was totally abated by 1:10      a.m. x p.m. on Feb. 25 20 06

Action taken to abate the violation: The lock screws were properly tightened.

Company / Operator Agent Served: Ronnie Tinney

Authorized Representative: John Scott Inspector No. 129

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) x Reasonably likely (10)      Occurred (20)     

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

Permanently disabling (15)      Fatal (20)     

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

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

Knowing Violation: No x Yes      Repeat     

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

No compliance (extenuating circumstances) (0%) x Extra effort (-15%)

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STATE OF WEST VIRGINIA

OFFICE OF  
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Region 1  
Case No. 129-0364-2006  
Violation No. 25

NOTICE OF VIOLATION

Company / Operator Anker WV Mining Co. Contractor: Yes      No X  
Permit Number U-2016-98B Mine Name Sago  
Date of Issue Feb. 1, 20 06 Time 12:40      A.M. X 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 40(15) and/or West Virginia Administrative Regulation: Title     , Series     , Section      exists as follows: The No.3 Fairchild 35C

scoop located on the 1 Left Section is not being maintained in permissible condition. The  
conduit on both battery plugs is damaged and the off side battery plugs conduit has  
approximately 14 inches missing the off-side. Battery plug has broken insulation inside  
the plug.

Type of Issuance: N.O.V. X Order     

Area or equipment (if order is issued):     

The foregoing violation shall be totally abated by 2:30      a.m. X p.m. on Feb. 24 20 06

The foregoing violation was totally abated by 2:30      a.m. X p.m. on Feb. 24 20 06

Action taken to abate the violation: The damaged and missing conduit was replaced and the damaged  
battery plug was replaced.

Company / Operator Agent Served: Ronnie Timney

Authorized Representative: John Scott Inspector No. 129

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) X Reasonably likely (10)      Occurred (20)     

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

Permanently disabling (15)      Fatal (20)     

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

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

Knowing Violation: No X Yes      Repeat     

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

No compliance (extenuating circumstances) (0%) X Extra effort (-15%)

**West Virginia Office of Miners' Health, Safety and Training**  
**INSPECTION REPORT**

Record No. LM-153 Date: 3-13-06 Regular Inspection No.: \_\_\_\_\_

Case No. 023-0295-2006 Inspector Number: 23

Facility Type	Type of Inspection
Underground: <u>X</u>	Regular: _____ Electrical: <u>X</u>
Surface: _____	Idle:* _____ Shaft & Slope: _____
Contractor: _____	Investigation:* _____ Roof Control: _____
Preparation: _____	Complaint:* _____ BIT/ JSA: _____ (If this block is
Quarry: _____	Other:* _____ checked please use bit/jsa inspection form)

Company Name: Anker West Virginia Mining Co. WV Permit No.: U-2016-98B

Mine Name: Sago Mine Phone: 473-1676 Contractor ID: \_\_\_\_\_

Mine Location: Sago County: Upshur

Company Address: RT.9 Box 507, Buckhannon, WV Zip: 26201

No. of Employees: 138 No. of Shifts: 3 No. of Sections: 2

Shifts Inspected: Day: 9 Evening: \_\_\_\_\_ Midnight: \_\_\_\_\_ Tot. Insp. Days: 9

Mine Foreman: Carl Crumline Certificate No.: \_\_\_\_\_ Miners Rep: \_\_\_\_\_

**VIOLATIONS BY CATEGORY**

Mine Maps: _____	Coal Dust & Rock Dust: _____	Electricity: <u>8</u>
Ventilation: _____	Roof, Face & Ribs: _____	Safeguards for Mech. Eq.: _____
Equipment: _____	Explosives & Blasting: _____	Surface Structures & Prac: _____
Foreman: _____	Protective Clothing: _____	Auger Mining: _____
Fire Boss: _____	Transportation: _____	Underground Workings: _____
Highwalls: _____	Excavating: _____	Tipples & Cleaning Plants: _____
Drilling: _____	Dust (Surface): _____	Misc. Safety Provisions: _____
Haulage: _____	Compressed Gases: _____	General Safety Provisions: _____
First Aid: _____	Fire Protection: _____	Other Categories: _____
Hoisting: _____		

**VIOLATIONS / ORDERS ISSUED:**

Orders: \_\_\_\_\_ Failure to Abate: \_\_\_\_\_ IPA: \_\_\_\_\_ 71-WC: \_\_\_\_\_

Total Violations Issued: 8 Total Violations Abated: 8

**COMMENTS:**

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

Investigation of an accident.

Mark Wilfong  
Inspector-at-large

Bennie Comer #23  
Inspector and number

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STATE OF WEST VIRGINIA

OFFICE OF  
MINERS' HEALTH, SAFETY AND TRAINING

1615 Washington Street East  
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Goldenrod -Rep of Mines

Region One  
Case No. 023-0295-2006  
Violation No. I

NOTICE OF VIOLATION

Company / Operator Anker WV Mining Co., Inc. Contractor: Yes    No X  
Permit Number U-2016-98B Mine Name Sago Mine  
Date of Issue March 13th, 2006 Time Noon    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 40(20) and/or West Virginia Administrative Regulation: Title   , Series   , Section    exists as follows:   

The investigation of an accident involving the #6 battery bus revealed the following conditions:

- 1) A bare lead to the battery end of a plug of approximately one (1) inch.
- 2) The batteries need cleaned of excessive dust, spilled electrolytes, serviced and re-insulated.
- 3) The #3 resistance step mercury tube is bypassed. Could cause the vehicle to jump.

Type of Issuance: N.O.V.    X Order   

Area or equipment (if order is issued):   

The foregoing violation shall be totally abated by 12:30    a.m. X p.m. on 3-13 2006

The foregoing violation was totally abated by    a.m.    p.m. on    20  

Action taken to abate the violation: Both cleaned, lead insulated, mercury tube replaced.

Company / Operator Agent Served: Denver Wilfong

Authorized Representative: Bennie Comer Inspector No. 23

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) X Reasonably likely (10)    Occurred (20)   

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

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) X Moderate (15)    High (20)   

Knowing Violation: No X Yes    Repeat   

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

No compliance (extenuating circumstances) (0%) X Extra effort (-15%)

IF-018  
Revised 11-02

STATE OF WEST VIRGINIA

OFFICE OF  
MINERS' HEALTH, SAFETY AND TRAINING

1615 Washington Street East  
Charleston, West Virginia 25311-2126

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Region One  
Case No. 023-0295-2006  
Violation No. 2

NOTICE OF VIOLATION

Company / Operator Anker WV Mining Co., Inc. Contractor: Yes    No X  
Permit Number U-2016-98B Mine Name Sago Mine  
Date of Issue March 13th, 2006 Time Noon    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 40(20) and/or West Virginia Administrative Regulation: Title 22C, Series   , Section    exists as follows:   

As the result of an accident at this mine, an investigation revealed the following conditions on the #8 mantrip:

1) Outby leads to the lights to the junction not provided protection.  
(No bare wire showing)

2) Inby end light leads to light not protected (No bare wire showing).

3) The negative lead to the inby end batteries has a cut (bare showing).

4) Batteries need cleaned and serviced and re-insulate lids.

Type of Issuance: N.O.V. X Order   

Area or equipment (if order is issued):   

The foregoing violation shall be totally abated by    a.m.    p.m. on    20  

The foregoing violation was totally abated by 12:30 a.m. X p.m. on 3-13 2006

Action taken to abate the violation: Light leads repaired, bath cleaned.

Company / Operator Agent Served: Denver Wilfong

Authorized Representative: Bennie Comer Inspector No. 23

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) X Reasonably likely (10)    Occurred (20)   

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

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) X Moderate (15)    High (20)   

Knowing Violation: No X Yes    Repeat   

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

No compliance (extenuating circumstances) (0%) X Extra effort (-15%)



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STATE OF WEST VIRGINIA

OFFICE OF  
MINERS' HEALTH, SAFETY AND TRAINING

1615 Washington Street East  
Charleston, West Virginia 25311-2126

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Region One  
Case No. 023-0295-2006  
Violation No. 3

NOTICE OF VIOLATION

Company / Operator Anker WV Mining Co., Inc. Contractor: Yes    No X  
Permit Number U-2016-98B Mine Name Sago Mine  
Date of Issue March 13th, 2006 Time Noon    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 40(20) and/or West Virginia Administrative Regulation: Title   , Series   , Section    exists as follows:

The result of an investigation revealed the following condition on the  
power car on the 2-Left section.

1) Circuit #9 has #17 scoop charger label and has the #10 pump slurry  
plugged into it.

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

The foregoing violation shall be totally abated by    a.m.    p.m. on    20    
The foregoing violation was totally abated by 12:30 a.m. X p.m. on 3-13 2006  
Action taken to abate the violation: Re-labeled

Company / Operator Agent Served: Denver Wilfong

Authorized Representative: Bennie Comer Inspector No. 23

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) X Reasonably likely (10)    Occurred (20)   

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

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) X Moderate (15)    High (20)   

Knowing Violation: No X Yes    Repeat   

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

No compliance (extenuating circumstances) (0%) X Extra effort (-15%)

IF-018  
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STATE OF WEST VIRGINIA

OFFICE OF  
MINERS' HEALTH, SAFETY AND TRAINING

1615 Washington Street East  
Charleston, West Virginia 25311-2126

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Region One  
Case No. 023-0295-2006  
Violation No. 4

NOTICE OF VIOLATION

Company / Operator Anker WV Mining Co., Inc. Contractor: Yes ☐ No ☒  
Permit Number U-2016-98B Mine Name Sago Mine  
Date of Issue March 13th, 2006 Time        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       , Article       , Section        and/or West Virginia Administrative Regulation: Title 36, Series 18, Section 4 exists as follows:

During an investigation, it was revealed that on the 2 Left section, the #4 scoop winch cable has the hook broken off and the end has been frayed. Chains have been installed to be used instead of the hook. Also, the rope is worn and has burns along the length likely to be handled by men working with the cable.

Type of Issuance: N.O.V. ☒ Order       

Area or equipment (if order is issued):       

The foregoing violation shall be totally abated by        a.m.        p.m. on        20      

The foregoing violation was totally abated by 12:30 a.m. ☒ p.m. on 3-13 2006

Action taken to abate the violation: Cable replaced.

Company / Operator Agent Served: Denver Wilfong

Authorized Representative: Bennie Comer Inspector No. 23

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)        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%)

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STATE OF WEST VIRGINIA

OFFICE OF  
MINERS' HEALTH, SAFETY AND TRAINING

1615 Washington Street East  
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Region One  
Case No. 023-0295-2006  
Violation No. 5

NOTICE OF VIOLATION

Company / Operator Anker WV Mining Co., Inc. Contractor: Yes    No X  
Permit Number U-2016-98B Mine Name Sago Mine  
Date of Issue March 13th, 2006 Time Noon    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 40(15) and/or West Virginia Administrative Regulation: Title   , Series   , Section    exists as follows:   

An investigation revealed that on the 2-Left section, the #2 scoop had the following conditions:

- 1) The deck master switch station box has a flat washer missing top row second from the right (22A-2-15).
- 2) The set screw does not prevent the packing nut from backing out off side front light.
- 3) Batteries dirty and need serviced, insulate the lids and bolted back.
- 4) The conduit to the battery leads does not extend to plug (taped 6 inches).

Type of Issuance: N.O.V. X Order   

Area or equipment (if order is issued):   

The foregoing violation shall be totally abated by    a.m.    p.m. on    20  

The foregoing violation was totally abated by 12:30 a.m. X p.m. on 3-13- 2006

Action taken to abate the violation: Replaced washer, set screw corrected, clean batteries, conduit added.

Company / Operator Agent Served: Denver Wilfong

Authorized Representative: Bennie Comer Inspector No. 23

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) X Reasonably likely (10)    Occurred (20)   

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

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) X Moderate (15)    High (20)   

Knowing Violation: No X Yes    Repeat   

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

No compliance (extenuating circumstances) (0%) X Extra effort (-15%)

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STATE OF WEST VIRGINIA

OFFICE OF  
MINERS' HEALTH, SAFETY AND TRAINING

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Goldenrod -Rep of Mines

Region One  
Case No. 023-0295-2006  
Violation No. 6

NOTICE OF VIOLATION

Company / Operator Anker WV Mining Co., Inc. Contractor: Yes    No X  
Permit Number U-2016-98B Mine Name Sago Mine  
Date of Issue March 13th 2006 Time Noon    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   , Article   , Section    and/or West Virginia Administrative Regulation: Title 36, Series 18, Section 4 exists as follows:

During an investigation, it is revealed that the 2-Left section feeder has the following conditions:

1) The breaker handle from the outside of the contactor case does not operate the breaker in the box. To operate the breaker, you must enter the box.

2) The cable across the throat of the feeder provided to shut off the breaker, whenever someone would be dragged into the crusher part, is jammed and cannot operate.

Type of Issuance: N.O.V.   X   Order   

Area or equipment (if order is issued):   

The foregoing violation shall be totally abated by    a.m.    p.m. on    20  

The foregoing violation was totally abated by 12:30 a.m. X p.m. on 3-13 2006

Action taken to abate the violation: Handle repaired, unjammed.

Company / Operator Agent Served: Denver Wilfong

Authorized Representative: Bennie Comer Inspector No. 23

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) 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) X Moderate (15)    High (20)   

Knowing Violation: No X Yes    Repeat   

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

No compliance (extenuating circumstances) (0%) X Extra effort (-15%)

IF-O18  
Revised 11-02

STATE OF WEST VIRGINIA

OFFICE OF  
MINERS' HEALTH, SAFETY AND TRAINING

1615 Washington Street East  
Charleston, West Virginia 25311-2126

White- Company  
Blue -Inspector  
Green -Charleston  
Canary -Regional Office  
Pink- Post  
Goldenrod -Rep of Mines

Region One  
Case No. 023-0295-2006  
Violation No. 7

NOTICE OF VIOLATION

Company / Operator Anker WV Mining Co., Inc. Contractor: Yes    No X  
Permit Number U-2016-98B Mine Name Sago Mine  
Date of Issue March 13th, 2006 Time    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 40(15) and/or West Virginia Administrative Regulation: Title   , Series   , Section    exists as follows:   

During an investigation, it is revealed that the #2 miner had the following conditions:

- 1) Offside back light packing nut not properly packed in that the nut is closer the 1/8 inch, and also, the packing restraint does not secure the nut from loosening.
- 2) The offside flood light packing nut is not secured from loosening.

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

The foregoing violation shall be totally abated by    a.m.    p.m. on    20     
The foregoing violation was totally abated by 12:30 a.m. X p.m. on 3-13 20 06  
Action taken to abate the violation:   

Company / Operator Agent Served: Denver Wilfong

Authorized Representative: Bennie Comer Inspector No. 23

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) X Reasonably likely (10)    Occurred (20)   

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

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) X Moderate (15)    High (20)   

Knowing Violation: No X Yes    Repeat   

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

No compliance (extenuating circumstances) (0%) X Extra effort (-15%)

IF-018  
Revised 11-02

STATE OF WEST VIRGINIA

OFFICE OF  
MINERS' HEALTH, SAFETY AND TRAINING

1615 Washington Street East  
Charleston, West Virginia 25311-2126

White- Company  
Blue -Inspector  
Green -Charleston  
Canary -Regional Office  
Pink- Post  
Goldenrod -Rep of Mines

Region One  
Case No. 023-0295-2006  
Violation No. 8

NOTICE OF VIOLATION

Company / Operator Anker WV Mining Co., Inc. Contractor: Yes    No X  
Permit Number U-2016-98B Mine Name Sago Mine  
Date of Issue March 13th, 2006 Time Noon    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 40(20) and/or West Virginia Administrative Regulation: Title   , Series   , Section    exists as follows:

During an investigation it is revealed that the 1-Left section power car had the following conditions:

- 1) The #1 circuit for the #4 Miner 1040VAC cable 2/0 breaker set to 3 1500/3000, 2063 amps and cannot exceed 1500 amps, low.
- 2) The #3 circuit for #5 Miner 1040VAC 2/0 cable breaker <sup>1500/3000</sup> set to 4 and above 2250 amps - cannot exceed 1500 (low).
- 3) Have a cut in the #17 shuttle car cable 40 inches from the plug (bare lead).
- 4) 110 volt cord to light has the non-bare leads showing at the plug (<sup>need</sup> secured)

Type of Issuance: N.O.V. X Order   

Area or equipment (if order is issued):   

The foregoing violation shall be totally abated by    a.m.    p.m. on    20  

The foregoing violation was totally abated by 12:30 a.m. X p.m. on 3-13 2006

Action taken to abate the violation: Circuits set to correct level, cable replaced,  
cord replaced.

Company / Operator Agent Served:   

Authorized Representative: Bennie Comer Inspector No. 23

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) X Lost or restricted days (11)   

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) X Moderate (15)    High (20)   

Knowing Violation: No X Yes    Repeat   

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

No compliance (extenuating circumstances) (0%) X Extra effort (-15%)

## West Virginia Office of Miners' Health, Safety and Training INSPECTION REPORT

Record No. LM-77 Date: June 27 2006 Regular Inspection No.: \_\_\_\_\_

Case No. 022-208-06 Inspector Number: 2

**Facility Type**

Underground: ☒  
Surface: \_\_\_\_\_  
Contractor: \_\_\_\_\_  
Preparation: \_\_\_\_\_  
Quarry: \_\_\_\_\_

**Type of Inspection**

Regular: _____	Electrical: _____
Idle:* _____	Shaft & Slope: _____
Investigation:* _____	Roof Control: _____
Complaint:* _____	BIT/ JSA: _____ (If this block is
Other:* <input checked="" type="checkbox"/> _____	checked please use bit/jsa inspection form)

Company Name: Unken WV Mining Co. Inc WV Permit No.: U-2016-SPR

Mine Name: Esso Mine Phone: 473-676 Contractor ID: N/A

Mine Location: Esso County: Upshur

Company Address: Box 507, Buckhannon, WV Zip: 26201

No. of Employees: 178 No. of Shifts: 3 No. of Sections: 2

Shifts Inspected: Day: 2 Evening: \_\_\_\_\_ Midnight: \_\_\_\_\_ Tot. Insp. Days: 2

Mine Foreman: Carl Hummer Certificate No. 25923 Miners Rep: Jeremy Toler

### VIOLATIONS BY CATEGORY

Mine Maps: _____	Coal Dust & Rock Dust: _____	Electricity: _____
Ventilation: _____	Roof, Face & Ribs: _____	Safeguards for Mech. Eq.: _____
Equipment: _____	Explosives & Blasting: _____	Surface Structures & Prac: _____
Foreman: _____	Protective Clothing: _____	Auger Mining: _____
Fire Boss: _____	Transportation: _____	Underground Workings: _____
Highwalls: _____	Excavating: _____	Tipples & Cleaning Plants: _____
Drilling: _____	Dust (Surface): _____	Misc. Safety Provisions: _____
Haulage: _____	Compressed Gases: _____	General Safety Provisions: _____
First Aid: _____	Fire Protection: _____	Other Categories: <u>2</u>
Hoisting: _____		

### VIOLATIONS / ORDERS ISSUED:

Orders: \_\_\_\_\_ Failure to Abate: \_\_\_\_\_ IPA: \_\_\_\_\_ 71-WC: \_\_\_\_\_

Total Violations Issued: 2 Total Violations Abated: 2

### COMMENTS:

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

Inspection concerning miners representatives.

Mark Wilfong  
Inspector-at-large

John L. Leno #2  
Inspector and number

OFFICE OF  
MINERS' HEALTH, SAFETY AND TRAINING

1615 Washington Street East  
Charleston, West Virginia 25311-2126

Region Dne  
Case No. 002-208-06  
Violation No. V-1

NOTICE OF VIOLATION

Company / Operator Anker WV Mining Co., Inc. Contractor: Yes ☐ No ☒  
Permit Number U-2016-988 Mine Name Lago  
Date of Issue Jan 25, 2016 Time 3:30 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 14 and/or West Virginia Administrative Regulation: Title , Series , Section  exists as follows:

The operator of the above named mine denied the  
authorized representative of the miners of the right to  
travel with an authorized representative of the Director  
and/or the Director during an inspection of this coal mine.

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

The foregoing violation shall be totally abated by 3:35 a.m. ☒ p.m. on 1-25 2016

The foregoing violation was totally abated by  a.m. ☐ p.m. on  20

Action taken to abate the violation: Note: The operator only requested five  
minutes for abatement.

Company / Operator Agent Served: Jeffery Toler

Authorized Representative: John Collins Inspector No. #2

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) ☐ 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) ☐

Glignence: 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%) ☐

ML 2-9-06



OFFICE OF  
MINERS' HEALTH, SAFETY AND TRAINING

1615 Washington Street East  
Charleston, West Virginia 25311-2126

White- Company  
Blue -Inspector  
Green -Charleston  
Canary -Regional Office  
Pink- Post  
Goldenrod -Rep of Mines

Region Dne  
Case No. 005-308-12  
Violation No. V-2

NOTICE OF VIOLATION

Company / Operator Unken WV Mining Co., Inc. Contractor: Yes    No     
Permit Number 11-2016-98B Mine Name J. Sigo  
Date of Issue Jan 25, 2017 Time 3:35 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 1, Section 15 and/or West Virginia Administrative Regulation: Title   , Series   , Section    exists as follows:

On Jan. 25 2016 at 3:30 P.M. a violation was issued to the above named operator for failure to allow an authorized representative of the miners to travel the Director upon an inspection. Upon the abatement time the notice of violation has not been abated and the abatement time is further extended. There fore an order is issued

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

The foregoing violation shall be totally abated by    a.m.    p.m. on    20  

The foregoing violation was totally abated by    a.m.    p.m. on    20  

Action taken to abate the violation:   

Company / Operator Agent Served: Eden Tolce

Authorized Representative: John O'Neil Inspector No. #1

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)    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)   

Glignence: None (0)    Low (10)    Moderate (15)    High (20) X

Knowing Violation: No X Yes    Repeat   

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

No compliance (extenuating circumstances) (0%) X Extra effort (-15%)   

MD 2-9-06

IF - 019  
Revised 6/02

State of West Virginia  
Office of Miners' Health, Safety and Training

1615 Washington Street, East  
Charleston, West Virginia 25311-2126

White - Company  
Blue - Inspector  
Green - Charleston  
Canary - Regional Office  
Pink - Post  
Goldenrod - Rep. of Mines

Region One

Case No. 001-208-06

INSPECTION OF VIOLATION

**Good faith in abatement:** Lack of good faith (+15%) \_\_\_\_\_

No compliance (extenuating circumstances) (0%) \_\_\_\_\_ Extra effort (-15%) \_\_\_\_\_

Violation Number V-1 was/is hereby totally abated by 1-27, 20 06

5:30 a.m. 5:30 p.m., extended to \_\_\_\_\_, 20 \_\_\_\_\_, modified to \_\_\_\_\_

Order, \_\_\_\_\_ Withdrawn.

Action taken to abate the violation: The mine operator is now allowing authorized representatives of the miners to meet with the inspectors.

**Good faith in abatement:** Lack of good faith (+15%) \_\_\_\_\_

No compliance (extenuating circumstances) (0%) \_\_\_\_\_ Extra effort (-15%) \_\_\_\_\_

Violation Number V-2 was/is hereby totally abated by 1-27, 20 06

5:30 a.m. 5:30 p.m., extended to \_\_\_\_\_, 20 \_\_\_\_\_, modified to \_\_\_\_\_

Order, \_\_\_\_\_ Withdrawn.

Action taken to abate the violation: The mine operator is now allowing authorized representatives of the miners to meet with the inspectors.

**Good faith in abatement:** Lack of good faith (+15%) \_\_\_\_\_

No compliance (extenuating circumstances) (0%) \_\_\_\_\_ Extra effort (-15%) \_\_\_\_\_

Violation Number \_\_\_\_\_ was/is hereby \_\_\_\_\_ totally abated by \_\_\_\_\_, 20 \_\_\_\_\_

\_\_\_\_\_ a.m. \_\_\_\_\_ p.m., extended to \_\_\_\_\_, 20 \_\_\_\_\_, modified to \_\_\_\_\_

Order, \_\_\_\_\_ Withdrawn.

Action taken to abate the violation: \_\_\_\_\_

**Good faith in abatement:** Lack of good faith (+15%) \_\_\_\_\_

No compliance (extenuating circumstances) (0%) \_\_\_\_\_ Extra effort (-15%) \_\_\_\_\_

Violation Number \_\_\_\_\_ was/is hereby \_\_\_\_\_ totally abated by \_\_\_\_\_, 20 \_\_\_\_\_

\_\_\_\_\_ a.m. \_\_\_\_\_ p.m., extended to \_\_\_\_\_, 20 \_\_\_\_\_, modified to \_\_\_\_\_

Order, \_\_\_\_\_ Withdrawn.

Action taken to abate the violation: \_\_\_\_\_

**Good faith in abatement:** Lack of good faith (+15%) \_\_\_\_\_

No compliance (extenuating circumstances) (0%) \_\_\_\_\_ Extra effort (-15%) \_\_\_\_\_

Violation Number \_\_\_\_\_ was/is hereby \_\_\_\_\_ totally abated by \_\_\_\_\_, 20 \_\_\_\_\_

\_\_\_\_\_ a.m. \_\_\_\_\_ p.m., extended to \_\_\_\_\_, 20 \_\_\_\_\_, modified to \_\_\_\_\_

Order, \_\_\_\_\_ Withdrawn.

Action taken to abate the violation: \_\_\_\_\_

Company/Operator Agent served: Jesse Toler Date: 1-27, 20 06

Authorized Representative: John Collins Inspector Number #2

MW 2-9-06

## 5.1-2 Victim and Accident Information

### VICTIM INFORMATION (Privacy Information Removed)

NAME OF VICTIM MR. TERRY M. HELMS

ADDRESS CONFIDENTIAL

DATE OF BIRTH CONFIDENTIAL AGE 50

SOCIAL SECURITY NUMBER CONFIDENTIAL

EMPLOYED BY ANKER WEST VIRGINIA MINING COMPANY, INC.

MINE NAME SAGO MINE PERMIT # U-2016-98B

COAL MINER'S CERTIFICATION NUMBER CONFIDENTIAL

TOTAL MINING EXPERIENCE 29 YEARS

EXPERIENCE AT THIS MINE 26 WEEKS

REGULAR OCCUPATION MINE EXAMINER/BELTMAN

SPOUSE'S NAME CONFIDENTIAL

DEPENDENTS CONFIDENTIAL

INFORMATION CONTACT PERSON CONFIDENTIAL

DATE OF ACCIDENT 2nd DAY OF JANUARY, 2006

#### DESCRIPTION OF ACCIDENT:

On January 2, 2006 at approximately 6:30 A.M. a methane and/or coal dust explosion occurred behind the 2 North East Mains seals of the Anker West Virginia Mining Company's, Sago Mine causing a mine disaster. The explosion resulted in the immediate death of (1) one miner and blocking the escape route of twelve other miners causing the death of eleven of these miners. The explosion destroyed the North East Mains Seals, the stopping line and overcasts that provided intake air to the seals, the intake stopping line that provided intake air to the 2<sup>nd</sup> Left working section, several intake and return stoppings along the 4 track and an overcast at 12 block of 4 track, creating a short circuit of ventilation. According to the medical report death was caused by carbon monoxide poisoning.

## 5.1-2 Victim and Accident Information

### VICTIM INFORMATION (Privacy Information Removed)

NAME OF VICTIM MR. MARTIN TOLER, JR.

ADDRESS CONFIDENTIAL

DATE OF BIRTH CONFIDENTIAL AGE 51

SOCIAL SECURITY NUMBER CONFIDENTIAL

EMPLOYED BY ANKER WEST VIRGINIA MINING COMPANY, INC.

MINE NAME SAGO MINE PERMIT # U-2016-98B

COAL MINER'S CERTIFICATION NUMBER CONFIDENTIAL

TOTAL MINING EXPERIENCE 32 YEARS

EXPERIENCE AT THIS MINE 14 WEEKS

REGULAR OCCUPATION SECTION FOREMAN

SPOUSE'S NAME CONFIDENTIAL

DEPENDENTS CONFIDENTIAL

INFORMATION CONTACT PERSON CONFIDENTIAL

DATE OF ACCIDENT 2nd DAY OF JANUARY, 2006

#### DESCRIPTION OF ACCIDENT:

On January 2, 2006 at approximately 6:30 A.M. a methane and/or coal dust explosion occurred behind the 2 North East Mains seals of the Anker West Virginia Mining Company's, Sago Mine causing a mine disaster. The explosion resulted in the immediate death of (1) one miner and blocking the escape route of twelve other miners causing the death of eleven of these miners. The explosion destroyed the North East Mains Seals, the stopping line and overcasts that provided intake air to the seals, the intake stopping line that provided intake air to the 2<sup>nd</sup> Left working section, several intake and return stoppings along the 4 track and an overcast at 12 block of 4 track, creating a short circuit of ventilation. According to the medical report death was caused by carbon monoxide poisoning.

## 5.1-2 Victim and Accident Information

### VICTIM INFORMATION (Privacy Information Removed)

NAME OF VICTIM MR. ALVA M. BENNETT

ADDRESS CONFIDENTIAL

DATE OF BIRTH CONFIDENTIAL AGE 51

SOCIAL SECURITY NUMBER CONFIDENTIAL

EMPLOYED BY ANKER WEST VIRGINIA MINING COMPANY, INC.

MINE NAME SAGO MINE PERMIT # U-2016-98B

COAL MINER'S CERTIFICATION NUMBER CONFIDENTIAL

TOTAL MINING EXPERIENCE 29 YEARS

EXPERIENCE AT THIS MINE 2 YEARS AND 26 WEEKS

REGULAR OCCUPATION CONTINUOUS MINING MACHINE OPERATOR

SPOUSE'S NAME CONFIDENTIAL

DEPENDENTS CONFIDENTIAL

INFORMATION CONTACT PERSON CONFIDENTIAL

DATE OF ACCIDENT 2nd DAY OF JANUARY, 2006

#### DESCRIPTION OF ACCIDENT:

On January 2, 2006 at approximately 6:30 A.M. a methane and/or coal dust explosion occurred behind the 2 North East Mains seals of the Anker West Virginia Mining Company's, Sago Mine causing a mine disaster. The explosion resulted in the immediate death of (1) one miner and blocking the escape route of twelve other miners causing the death of eleven of these miners. The explosion destroyed the North East Mains Seals, the stopping line and overcasts that provided intake air to the seals, the intake stopping line that provided intake air to the 2<sup>nd</sup> Left working section, several intake and return stoppings along the 4 track and an overcast at 12 block of 4 track, creating a short circuit of ventilation. According to the medical report death was caused by carbon monoxide poisoning.

## 5.1-2 Victim and Accident Information

### VICTIM INFORMATION (Privacy Information Removed)

NAME OF VICTIM MR. FRED G. WARE, Jr.

ADDRESS CONFIDENTIAL

DATE OF BIRTH CONFIDENTIAL AGE 58

SOCIAL SECURITY NUMBER CONFIDENTIAL

EMPLOYED BY ANKER WEST VIRGINIA MINING COMPANY, INC.

MINE NAME SAGO MINE PERMIT # U-2016-98B

COAL MINER'S CERTIFICATION NUMBER CONFIDENTIAL

TOTAL MINING EXPERIENCE 37 YEARS

EXPERIENCE AT THIS MINE 1 YEAR AND 26 WEEKS

REGULAR OCCUPATION CONTINUOUS MINING MACHINE OPERATOR

SPOUSE'S NAME CONFIDENTIAL

DEPENDENTS CONFIDENTIAL

INFORMATION CONTACT PERSON CONFIDENTIAL

DATE OF ACCIDENT 2nd DAY OF JANUARY, 2006

#### DESCRIPTION OF ACCIDENT:

On January 2, 2006 at approximately 6:30 A.M. a methane and/or coal dust explosion occurred behind the 2 North East Mains seals of the Anker West Virginia Mining Company's, Sago Mine causing a mine disaster. The explosion resulted in the immediate death of (1) one miner and blocking the escape route of twelve other miners causing the death of eleven of these miners. The explosion destroyed the North East Mains Seals, the stopping line and overcasts that provided intake air to the seals, the intake stopping line that provided intake air to the 2<sup>nd</sup> Left working section, several intake and return stoppings along the 4 track and an overcast at 12 block of 4 track, creating a short circuit of ventilation. According to the medical report death was caused by carbon monoxide poisoning.

## 5.1-2 Victim and Accident Information

### VICTIM INFORMATION (Privacy Information Removed)

NAME OF VICTIM MR. JESSE L. JONES

ADDRESS CONFIDENTIAL

DATE OF BIRTH CONFIDENTIAL AGE 44

SOCIAL SECURITY NUMBER CONFIDENTIAL

EMPLOYED BY ANKER WEST VIRGINIA MINING COMPANY, INC.

MINE NAME SAGO MINE PERMIT # U-2016-98B

COAL MINER'S CERTIFICATION NUMBER CONFIDENTIAL

TOTAL MINING EXPERIENCE 16 YEARS

EXPERIENCE AT THIS MINE 1 YEAR AND 36 WEEKS

REGULAR OCCUPATION ROOF BOLTING MACHINE OPERATOR

SPOUSE'S NAME CONFIDENTIAL

DEPENDENTS CONFIDENTIAL

INFORMATION CONTACT PERSON CONFIDENTIAL

DATE OF ACCIDENT 2nd DAY OF JANUARY, 2006

#### DESCRIPTION OF ACCIDENT:

On January 2, 2006 at approximately 6:30 A.M. a methane and/or coal dust explosion occurred behind the 2 North East Mains seals of the Anker West Virginia Mining Company's, Sago Mine causing a mine disaster. The explosion resulted in the immediate death of (1) one miner and blocking the escape route of twelve other miners causing the death of eleven of these miners. The explosion destroyed the North East Mains Seals, the stopping line and overcasts that provided intake air to the seals, the intake stopping line that provided intake air to the 2<sup>nd</sup> Left working section, several intake and return stoppings along the 4 track and an overcast at 12 block of 4 track, creating a short circuit of ventilation. According to the medical report death was caused by carbon monoxide poisoning.

## 5.1-2 Victim and Accident Information

### VICTIM INFORMATION (Privacy Information Removed)

NAME OF VICTIM MR. DAVID W. LEWIS

ADDRESS CONFIDENTIAL

DATE OF BIRTH CONFIDENTIAL AGE 28

SOCIAL SECURITY NUMBER CONFIDENTIAL

EMPLOYED BY ANKER WEST VIRGINIA MINING COMPANY, INC.

MINE NAME SAGO MINE PERMIT # U-2016-98B

COAL MINER'S CERTIFICATION NUMBER CONFIDENTIAL

TOTAL MINING EXPERIENCE 1 YEAR AND 32 WEEKS

EXPERIENCE AT THIS MINE 1 YEAR AND 32 WEEKS

REGULAR OCCUPATION ROOF BOLTING MACHINE OPERATOR

SPOUSE'S NAME CONFIDENTIAL

DEPENDENTS CONFIDENTIAL

INFORMATION CONTACT PERSON CONFIDENTIAL

DATE OF ACCIDENT 2nd DAY OF JANUARY, 2006

#### DESCRIPTION OF ACCIDENT:

On January 2, 2006 at approximately 6:30 A.M. a methane and/or coal dust explosion occurred behind the 2 North East Mains seals of the Anker West Virginia Mining Company's, Sago Mine causing a mine disaster. The explosion resulted in the immediate death of (1) one miner and blocking the escape route of twelve other miners causing the death of eleven of these miners. The explosion destroyed the North East Mains Seals, the stopping line and overcasts that provided intake air to the seals, the intake stopping line that provided intake air to the 2<sup>nd</sup> Left working section, several intake and return stoppings along the 4 track and an overcast at 12 block of 4 track, creating a short circuit of ventilation. According to the medical report death was caused by carbon monoxide poisoning.



## 5.1-2 Victim and Accident Information

### VICTIM INFORMATION (Privacy Information Removed)

NAME OF VICTIM MR. JERRY L. GROVES

ADDRESS CONFIDENTIAL

DATE OF BIRTH CONFIDENTIAL AGE 55

SOCIAL SECURITY NUMBER CONFIDENTIAL

EMPLOYED BY ANKER WEST VIRGINIA MINING COMPANY, INC.

MINE NAME SAGO MINE PERMIT # U-2016-98B

COAL MINER'S CERTIFICATION NUMBER CONFIDENTIAL

TOTAL MINING EXPERIENCE 28 YEARS

EXPERIENCE AT THIS MINE 1 YEAR

REGULAR OCCUPATION ROOF BOLTING MACHINE OPERATOR

SPOUSE'S NAME CONFIDENTIAL

DEPENDENTS CONFIDENTIAL

INFORMATION CONTACT PERSON CONFIDENTIAL

DATE OF ACCIDENT 2nd DAY OF JANUARY, 2006

#### DESCRIPTION OF ACCIDENT:

On January 2, 2006 at approximately 6:30 A.M. a methane and/or coal dust explosion occurred behind the 2 North East Mains seals of the Anker West Virginia Mining Company's, Sago Mine causing a mine disaster. The explosion resulted in the immediate death of (1) one miner and blocking the escape route of twelve other miners causing the death of eleven of these miners. The explosion destroyed the North East Mains Seals, the stopping line and overcasts that provided intake air to the seals, the intake stopping line that provided intake air to the 2<sup>nd</sup> Left working section, several intake and return stoppings along the 4 track and an overcast at 12 block of 4 track, creating a short circuit of ventilation. According to the medical report death was caused by carbon monoxide poisoning.

## 5.1-2 Victim and Accident Information

### VICTIM INFORMATION (Privacy Information Removed)

NAME OF VICTIM MR. THOMAS P. ANDERSON

ADDRESS CONFIDENTIAL

DATE OF BIRTH CONFIDENTIAL AGE 39

SOCIAL SECURITY NUMBER CONFIDENTIAL

EMPLOYED BY ANKER WEST VIRGINIA MINING COMPANY, INC.

MINE NAME SAGO MINE PERMIT # U-2016-98B

COAL MINER'S CERTIFICATION NUMBER CONFIDENTIAL

TOTAL MINING EXPERIENCE 10 YEARS

EXPERIENCE AT THIS MINE 16 WEEKS

REGULAR OCCUPATION SHUTTLE CAR OPERATOR

SPOUSE'S NAME CONFIDENTIAL

DEPENDENTS CONFIDENTIAL

INFORMATION CONTACT PERSON CONFIDENTIAL

DATE OF ACCIDENT 2nd DAY OF JANUARY, 2006

#### DESCRIPTION OF ACCIDENT:

On January 2, 2006 at approximately 6:30 A.M. a methane and/or coal dust explosion occurred behind the 2 North East Mains seals of the Anker West Virginia Mining Company's, Sago Mine causing a mine disaster. The explosion resulted in the immediate death of (1) one miner and blocking the escape route of twelve other miners causing the death of eleven of these miners. The explosion destroyed the North East Mains Seals, the stopping line and overcasts that provided intake air to the seals, the intake stopping line that provided intake air to the 2<sup>nd</sup> Left working section, several intake and return stoppings along the 4 track and an overcast at 12 block of 4 track, creating a short circuit of ventilation. According to the medical report death was caused by carbon monoxide poisoning.

## 5.1-2 Victim and Accident Information

### VICTIM INFORMATION (Privacy Information Removed)

NAME OF VICTIM MR. GEORGE J. HAMNER

ADDRESS CONFIDENTIAL

DATE OF BIRTH CONFIDENTIAL AGE 54

SOCIAL SECURITY NUMBER CONFIDENTIAL

EMPLOYED BY ANKER WEST VIRGINIA MINING COMPANY, INC.

MINE NAME SAGO MINE PERMIT # U-2016-98B

COAL MINER'S CERTIFICATION NUMBER CONFIDENTIAL

TOTAL MINING EXPERIENCE 26 YEARS

EXPERIENCE AT THIS MINE 1 YEAR 26 WEEKS

REGULAR OCCUPATION SHUTTLE CAR OPERATOR

SPOUSE'S NAME CONFIDENTIAL

DEPENDENTS CONFIDENTIAL

INFORMATION CONTACT PERSON CONFIDENTIAL

DATE OF ACCIDENT 2nd DAY OF JANUARY, 2006

#### DESCRIPTION OF ACCIDENT:

On January 2, 2006 at approximately 6:30 A.M. a methane and/or coal dust explosion occurred behind the 2 North East Mains seals of the Anker West Virginia Mining Company's, Sago Mine causing a mine disaster. The explosion resulted in the immediate death of (1) one miner and blocking the escape route of twelve other miners causing the death of eleven of these miners. The explosion destroyed the North East Mains Seals, the stopping line and overcasts that provided intake air to the seals, the intake stopping line that provided intake air to the 2<sup>nd</sup> Left working section, several intake and return stoppings along the 4 track and an overcast at 12 block of 4 track, creating a short circuit of ventilation. According to the medical report death was caused by carbon monoxide poisoning.

## 5.1-2 Victim and Accident Information

### VICTIM INFORMATION (Privacy Information Removed)

NAME OF VICTIM MR. JAMES A. BENNETT

ADDRESS CONFIDENTIAL

DATE OF BIRTH CONFIDENTIAL AGE 61

SOCIAL SECURITY NUMBER CONFIDENTIAL

EMPLOYED BY ANKER WEST VIRGINIA MINING COMPANY, INC.

MINE NAME SAGO MINE PERMIT # U-2016-98B

COAL MINER'S CERTIFICATION NUMBER CONFIDENTIAL

TOTAL MINING EXPERIENCE 25 YEARS

EXPERIENCE AT THIS MINE 20 WEEKS

REGULAR OCCUPATION SHUTTLE CAR OPERATOR

SPOUSE'S NAME CONFIDENTIAL

DEPENDENTS CONFIDENTIAL

INFORMATION CONTACT PERSON CONFIDENTIAL

DATE OF ACCIDENT 2nd DAY OF JANUARY, 2006

#### DESCRIPTION OF ACCIDENT:

On January 2, 2006 at approximately 6:30 A.M. a methane and/or coal dust explosion occurred behind the 2 North East Mains seals of the Anker West Virginia Mining Company's, Sago Mine causing a mine disaster. The explosion resulted in the immediate death of (1) one miner and blocking the escape route of twelve other miners causing the death of eleven of these miners. The explosion destroyed the North East Mains Seals, the stopping line and overcasts that provided intake air to the seals, the intake stopping line that provided intake air to the 2<sup>nd</sup> Left working section, several intake and return stoppings along the 4 track and an overcast at 12 block of 4 track, creating a short circuit of ventilation. According to the medical report death was caused by carbon monoxide poisoning.

## 5.1-2 Victim and Accident Information

### VICTIM INFORMATION (Privacy Information Removed)

NAME OF VICTIM MR. MARSHALL C. WINANS

ADDRESS CONFIDENTIAL

DATE OF BIRTH CONFIDENTIAL AGE 50

SOCIAL SECURITY NUMBER CONFIDENTIAL

EMPLOYED BY ANKER WEST VIRGINIA MINING COMPANY, INC.

MINE NAME SAGO MINE PERMIT # U-2016-98B

COAL MINER'S CERTIFICATION NUMBER CONFIDENTIAL

TOTAL MINING EXPERIENCE 23 YEARS

EXPERIENCE AT THIS MINE 1 YEAR 8 WEEKS

REGULAR OCCUPATION SCOOP OPERATOR

SPOUSE'S NAME CONFIDENTIAL

DEPENDENTS CONFIDENTIAL

INFORMATION CONTACT PERSON CONFIDENTIAL

DATE OF ACCIDENT 2nd DAY OF JANUARY, 2006

#### DESCRIPTION OF ACCIDENT:

On January 2, 2006 at approximately 6:30 A.M. a methane and/or coal dust explosion occurred behind the 2 North East Mains seals of the Anker West Virginia Mining Company's, Sago Mine causing a mine disaster. The explosion resulted in the immediate death of (1) one miner and blocking the escape route of twelve other miners causing the death of eleven of these miners. The explosion destroyed the North East Mains Seals, the stopping line and overcasts that provided intake air to the seals, the intake stopping line that provided intake air to the 2<sup>nd</sup> Left working section, several intake and return stoppings along the 4 track and an overcast at 12 block of 4 track, creating a short circuit of ventilation. According to the medical report death was caused by carbon monoxide poisoning.

## 5.1-2 Victim and Accident Information

### VICTIM INFORMATION (Privacy Information Removed)

NAME OF VICTIM MR. JACKIE L. WEAVER

ADDRESS CONFIDENTIAL

DATE OF BIRTH CONFIDENTIAL AGE 50

SOCIAL SECURITY NUMBER CONFIDENTIAL

EMPLOYED BY ANKER WEST VIRGINIA MINING COMPANY, INC.

MINE NAME SAGO MINE PERMIT # U-2016-98B

COAL MINER'S CERTIFICATION NUMBER CONFIDENTIAL

TOTAL MINING EXPERIENCE 26 YEARS

EXPERIENCE AT THIS MINE 2 YEARS

REGULAR OCCUPATION ELECTRICIAN

SPOUSE'S NAME CONFIDENTIAL

DEPENDENTS CONFIDENTIAL

INFORMATION CONTACT PERSON CONFIDENTIAL

DATE OF ACCIDENT 2nd DAY OF JANUARY, 2006

#### DESCRIPTION OF ACCIDENT:

On January 2, 2006 at approximately 6:30 A.M. a methane and/or coal dust explosion occurred behind the 2 North East Mains seals of the Anker West Virginia Mining Company's, Sago Mine causing a mine disaster. The explosion resulted in the immediate death of (1) one miner and blocking the escape route of twelve other miners causing the death of eleven of these miners. The explosion destroyed the North East Mains Seals, the stopping line and overcasts that provided intake air to the seals, the intake stopping line that provided intake air to the 2<sup>nd</sup> Left working section, several intake and return stoppings along the 4 track and an overcast at 12 block of 4 track, creating a short circuit of ventilation. According to the medical report death was caused by carbon monoxide poisoning.

## 5.1-2 Victim and Accident Information

### ACCIDENT INFORMATION (Privacy Information Removed)

NAME OF INJURED Mr. RANDAL L. McCLOY

DATE OF BIRTH CONFIDENTIAL AGE 26

SOCIAL SECURITY NUMBER CONFIDENTIAL

EMPLOYED BY ANKER WEST VIRGINIA MINING COMPANY, INC.

MINE NAME SAGO MINE PERMIT # U-2016-98B

COAL MINER'S CERTIFICATION NUMBER CONFIDENTIAL

TOTAL MINING EXPERIENCE 4 YEARS AND 3 MONTHS

EXPERIENCE AT THIS MINE 1 YEAR AND 4 MONTHS

REGULAR OCCUPATION ROOF BOLTING MACHINE OPERATOR

INFORMATION CONTACT PERSON CONFIDENTIAL

DATE OF ACCIDENT 2nd DAY OF JANUARY, 2006

#### DESCRIPTION OF ACCIDENT:

On January 2, 2006 at approximately 6:30 A.M. a methane and/or coal dust explosion occurred behind the 2 North East Mains seals of the Anker West Virginia Mining Company's, Sago Mine causing a mine disaster. The explosion resulted in the immediate death of (1) one miner and blocking the escape route of twelve other miners causing the death of eleven of these miners. The explosion destroyed the North East Mains Seals, the stopping line and overcasts that provided intake air to the seals, the intake stopping line that provided intake air to the 2<sup>nd</sup> Left working section, several intake and return stoppings along the 4 track and an overcast at 12 block of 4 track, creating a short circuit of ventilation. According to the accident report submitted by the operator Mr. McCloy's injuries were caused by carbon monoxide poisoning.

## 5.1-3 Interviews

An important part of this investigation, obtaining information through interviews, was a coordinated effort between MSHA and WVMHS&T.

Representatives of MSHA and WVMHS&T participated in the questioning of persons interviewed. *A list of these representatives can be found in **Appendix 5: Statistics and Fact-finding**.*

As in any interview process, the information obtained usually helps to answer questions directly or provides information as to where other answers may be obtained.

Several people participated in interviews. Included in those interviewed were miners underground at the time of the accident, mine management persons who entered the mine during the initial rescue attempt, persons who were involved in the seal construction, mine rescue team members, representatives of mine management (Anker and ICG), representatives of MSHA, representatives of WVOMHS&T, medical field persons, and consultants. *A list of persons and date of interviews can be found in **Appendix 5: Statistics and Fact-finding**.*

*Transcripts of interviews can be found at [www.wvminesafety.org](http://www.wvminesafety.org).*



**Interviewers**

**MSHA REPRESENTATIVES:**

Richard Gates  
Joe O'Donnell  
Richard Stolz  
John Urosek  
Russel Dresh  
Dennis Swentosky  
Clete Stephen  
Arthur Wooten  
James Crawford  
Robert Wilson  
Timothy Williams

**WV MHS&T REPRESENTATIVES:**

Doug Conaway  
Terry Farley  
Mike Rutledge  
Brian Mills  
John Collins  
John Scott  
Jeff Bennett  
James Dean  
Monte Hieb  
Dave Stewart  
Davitt McAteer – Advisor to the Governor  
Joe Pavlovich - Associate to Davitt McAteer

**5.1-3**

## **Investigations / Interviews**

### **Representatives At Randal McCloy Interview**

#### **MSHA REPRESENTATIVES:**

Ray McKinney

Edward Clair

#### **ADVISOR TO THE GOVERNOR:**

Davitt McAteer

## 5.1-3

## Investigations / Interviews

The following people were interviewed during the investigation:

01/17/06 James Jamison	02/21/06 Harrison Coleman
01/17/06 Owen Jones	02/21/06 Rockie Starkey
01/18/06 James Schoonover	02/22/06 Charles Dunbar
01/18/06 Jeffrey Toler	02/22/06 John Semple
01/19/06 Gary Carpenter	02/23/06 Seth Osborne
01/19/06 John Boni	02/24/06 Jeremy Toler
01/19/06 Ronald Grall	03/23/06 Brian Mills
01/23/06 Christopher Tenney	03/23/06 Chris Lilly
01/23/06 Hoy Keith	03/23/06 John Collins
01/23/06 Vernon Hofer	03/23/06 Sam Kitts
01/24/06 Harmon Jordan	03/23/06 Tim Martin
01/24/06 Jeffrey Snyder	03/24/06 Brad Kauffman
01/24/06 John Jackson	03/24/06 Clifford Bryant
01/24/06 Marty Conrad	03/24/06 Jeff Bennett
01/25/06 Casey Short	03/24/06 John Hall
01/25/06 George Brooks	03/25/06 David Lever Knight
01/25/06 James Scott	03/26/06 James Klug
01/26/06 Arnett Perry	03/26/06 James Smith
01/26/06 Harley Ryan	03/26/06 Kevin Jolly
01/26/06 Randall Helmick	03/27/06 Franklin Thomas
02/14/06 Alton Wamsley	03/27/06 John Mehaulic
02/14/06 Denver Anderson	03/27/06 Martin Carver
02/14/06 Eric Hess	03/27/06 Robert Blake
02/14/06 Paul Avington	03/27/06 Roger Workman
02/15/06 Gary Rowan	03/27/06 Ronald Hixson
02/15/06 Michael Triplett	03/28/06 Clyde Tenney
02/15/06 William Chisolm	03/28/06 Eugen White
02/16/06 Carl Crumrine	03/28/06 Gary Hartsog
02/16/06 Denver Wilfong	03/28/06 Mark Chewning
02/16/06 Joseph Myers	03/28/06 Seth Osborne
02/17/06 Denver Wilfong	03/28/06 Willian Tucker
02/17/06 Earnest Webb	03/29/06 Casey Short
02/17/06 Harold Baisden	03/29/06 George Brooks
02/17/06 Nathan Eye	04/05/06 James Scott
02/17/06 Thomas Everson	06/19/06 Randall McCloy
02/20/06 Chester Runyon	07/19/06 Raymond Roberge, M. D.
02/20/06 Gary Marsh	07/18/06 Michael Shook
02/20/06 Lonnie Short	07/18/06 Charles Lash
02/20/06 John Boni	07/19/06 Thomas Novak, Ph. D.
02/21/06 Darrel Lucas	07/20/06 Stephen Sawyer, Ph. D.
02/21/06 Dave Mason	