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Table Of Contents











Green Lanas

Volume 31 Number 4

Green Lands is published quarterly by West Virginia Coal Association with offices at NorthGate Business Park, P.O. Box 3923, Charleston, WV 25339 (304) 346-5318, or (304) 342-4153, FAX 346-5310 E-Mail: wvcoal@wvcoal.com, website: www.wvcoal.com

Features

- 320 Reasons Why Fola Coal Company is the Gem of Clay County
- Giving New Hope
- Making the Pieces Fit: "One on One" with Mike Callaghan

Departments

- WVCA Board of Directors and Staff
- Chairman Comments
- 54 Awards and Recognitions
- 59 Reader Survey
- 67 Coal Calendar
- 68 **Advertising Contacts**

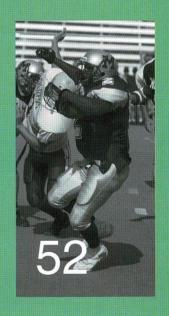
Also In This Issue

- WVCA Board of Directors 2001-2002
- 10 **WVCA Annual Meeting**
- More Examples of Reclaimed Mine Land Being Used for Economic Development in West Virginia
- Taking Aim 32
- Returning to the Wilderness 46
- West Virginia Coal Association Provides College Scholarships

Technically Speaking

Overburden Analysis and Special Handling at Fola Coal Company









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chairman's comments

By: Ken Woodring

Coal
Should be
the Foundation
of the National Energy Policy

On September 11, 2001
Americans endured the most horrific tragedy in the country's history, the terrorist attacks on the World Trade Center and the Pentagon. Our hearts go out to those who have lost family and friends. Our lives have changed forever.

In the aftermath of this tragic event, it is apparent that the United States will be rethinking its national security with an energy policy focused on energy independence. Coal should be the foundation of that policy.

Fortunately, the Bush Administration recognizes the dilemma this country faces with rising energy needs and an increasingly unstable international supply picture.

We also have a new state administration that has expressed the desire to be fair and objective in considering coal's role for the future. Governor Wise has commented that he wants to make sure that West Virginia coal plays a vital role in the nation's emerging energy policy. He has also appointed a task force to develop a mean-

ingful energy policy for West Virginia.

As the country's concern about producing affordable energy and developing a more stable national security program unfolds, West Virginia is sitting in an advantageous position. The nation will be looking to this state for energy and we must answer that call.

Yet, the fact of the matter is we have many formidable challenges ahead of us. We will have to deal with issues such as the ongoing saga of worker's compensation, the still unreliable permitting structure, trucking, and the Environmental Protection Agency's Environmental Impact Study, which is a year behind schedule.

And, if that is not enough, certain activist groups are trying to stop the mining of coal in West Virginia. They are well organized and financed.

The West Virginia coal industry has an uphill battle, but I think it is a winnable one. What do we need to do to keep coal in the forefront?

For starters, the West Virginia Mining and Reclamation Association and the West Virginia Coal Association merged earlier this year, which created a single voice for coal, an important step for our industry.

Now we must win the nearterm skirmishes, improve our public relations and maintain an adequately funded political action committee.

By prevailing on these fronts:

We can be the most potent part of West Virginia's economy;

We can continue to produce 99 percent of the state's electricity;

We can sustain ourselves as producers of the most valuable coal in the nation;

We can continue to be the largest exporter of coal in the country;

We can do this because we are a single, stronger voice for West Virginia Coal;

We can because we have miners and operators who are the best at what they do.

We will do all this in a manner that protects the environment as well as the health and safety of our employees and the neighboring communities.

As our industry works together as a team, we can keep the West Virginia coal industry a vital element to the state, nation and the entire world and West Virginia coal can remain the world's fuel of choice.

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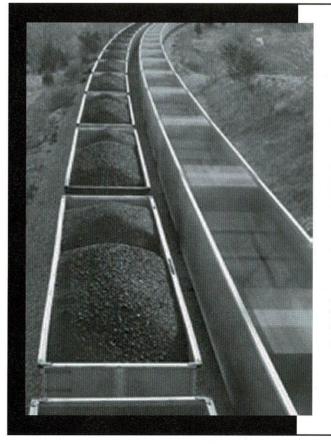
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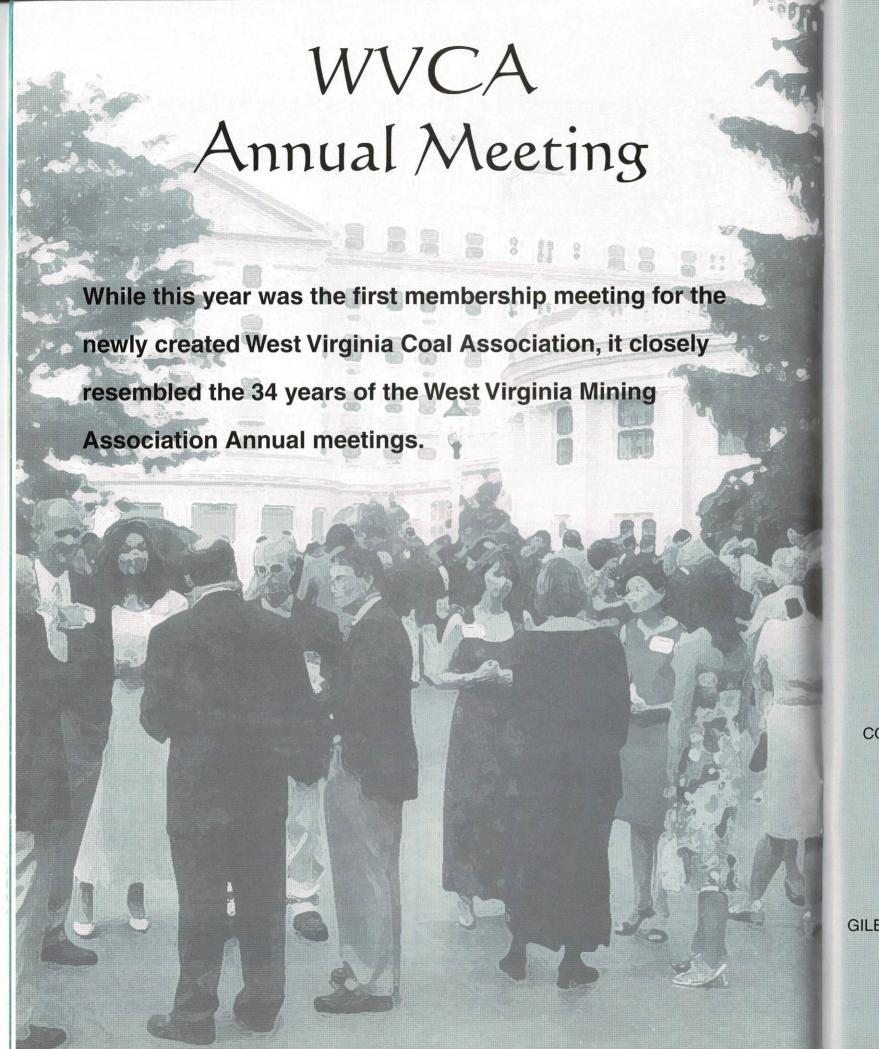
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Company Pride

General Division

Employees of Arch Coal placed first in this year's General Division's "Company Pride" Award.

Two other perennial powerhouses, "Buck's Bunch" and Ford Coal Company tied at the Runner Up spot.

1st Place Arch Coal, Inc.



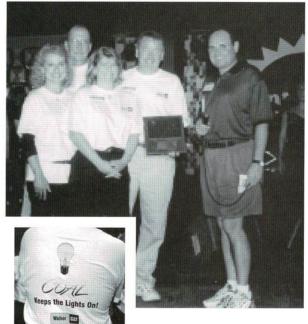
Runner Up (Tie) "Buck's Bunch"/ Ford Coal Company



Kate's Mountain

Associate Division

1st Place Cecil I. Walker Machinery Company

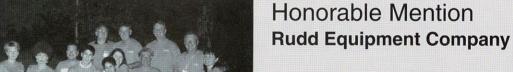


With the help of their new catchy slogan "Coal Keeps the Lights On," Cecil I. Walker Machinery Company captured first place in the Associate Division's "Company Pride" award.

Runner Up Rish Equipment Company



Rish maintained their perennial strong showing of company pride as this year's Runner Up.



Rudd Equipment demonstrated its company pride which deserved an honorable mention.





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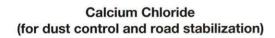
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More Examples of Reclaimed Mine Land **Being Used for Economic Development** in West Virginia

Two sites that once produced coal that helped FCI facility will employ 350-400 people and provide electricity to homes throughout West Virginia, now will be used by the Federal Bureau of Prisons (FBP) to construct new facilities in

In Glenville, Gilmer County, the FBP is building a medium-security Federal Correctional Institution (FCI) that will house approximately 1,152 inmates. A satellite Federal Prison Camp is also being built to house an additional 150 inmates on 327 acres of reclaimed mine land. The site was mined by Harry Boggs and Fosters and Rhodes.

The facility is scheduled to open in 2002. Construction costs are expected to reach \$95 million when complete. Once in operation, the

The medium-security Federal Correctional Institution being constructed in Glenvile, Gilmer County. Photo courtesy of Federal Bureau of Prisons.

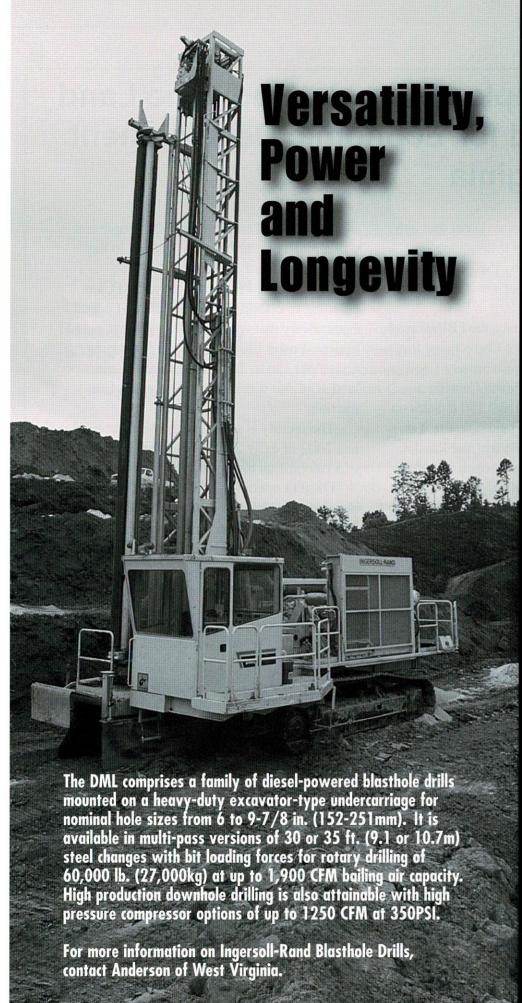
will annually contribute \$23 million to the local and regional economies.

In Hazelton, Preston County, the FCI is planning to construct a high-security Federal Penitentiary that will house 1,000 inmates. A Federal Prison Camp will be built to house an additional 150 to 300 inmates on 915 acres of land. The site was mined by Foreman Contracting.

The facility is scheduled to be completed in late 2002 or early 2003 with an anticipated cost of \$100 million to complete.

Once in operation, this FCI facility will also employ 350-400 people and will annually contribute \$20 million to the Preston County and surrounding economies.



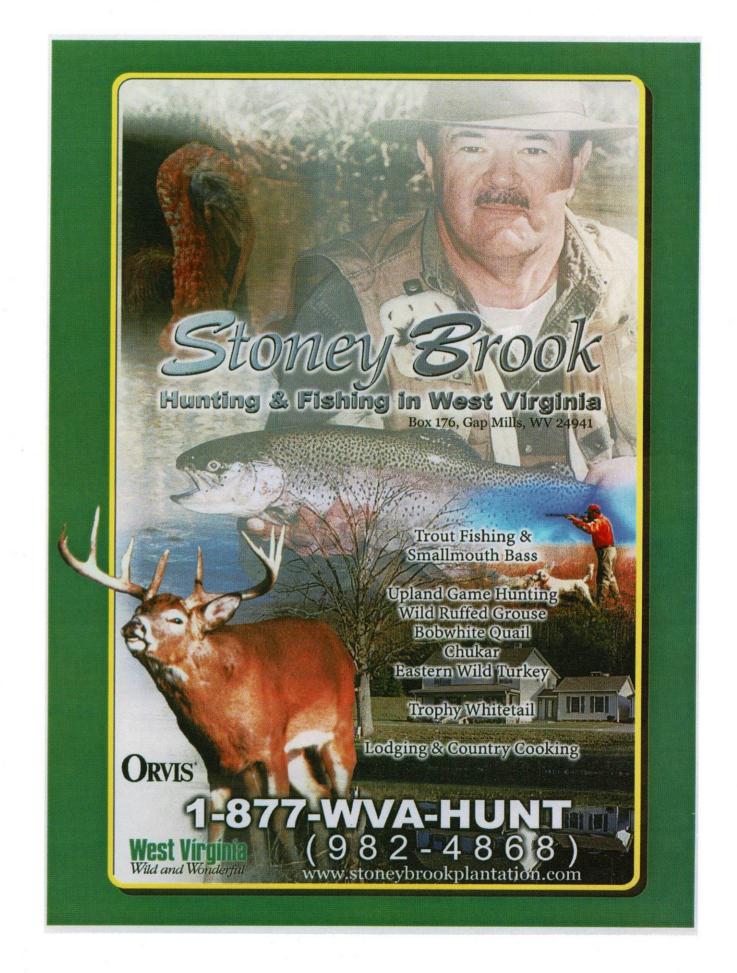




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320 Reasons

Why

Fola Coal Company

Is the Gem

of Clay County

Not many companies can say they have 320 public relations specialists.

Fola Coal Company does.

"We tell every one of our people the first day they come on board that they are public relations employees for Fola Coal Company," said Gary Patterson, president of Fola Coal Company. "We are now the largest employer in Clay County with local people. You won't find a better workforce in coal than what we have here."

Patterson thinks a successful community relations program must come from the employees themselves. Employees at Fola believe in what they are doing and pride runs deep at the operation.

"It was important to us to be a positive contributing member of the community from the beginning," said Patterson. "We knew we could be seen as a positive force in the community."

Local residents seem to be pleased with the determination that Fola demonstrates to stay connected with the community.

"Fola is vital to this community," said Tim Butcher, Clay County Commissioner. "They buy what they need right here. They have hired area residents, bought company vehicles here and even bank here. A lot of times, people just talk about buying local, but Fola does."

Fola officials, well aware that education is the backbone of any community, make sure much time is spent with students in and out of the classrooms. "An informed public is the best defense for our company's future, our community's future and our industry's future," Patterson said.

"We, as a company, have spent a lot of time with local schools," said Mike Isabell, manager of technical services at Fola. "We go to classes and tell them about reclamation and our operation, and do tours for the schools in Braxton, Clay and Nicholas counties. Probably every student in Clay County has been to our operation."

They didn't stop there. Like other coal companies and organizations throughout West Virginia, Fola expanded its educational outreach and started a college scholarship program two years ago.

"Each year we select a student at Clay County High School who has academic potential and otherwise might not go on to college," Patterson said. "We provide \$1,000 for each of the four years that student is in school. We will have four students receiving scholarships from Fola."

This sign, placed at the main gate, is a daily reminder about the importance of safety to Fola employees



Proper Reclamation

Most Fola employees enjoy hunting and fishing during their time away from work. Sometimes their pastime will bring them back to company property.

"Fola owns about 13,000 acres," Isabell said. "We give hunting passes to our employees and to county residents. We also provide a map showing where they can hunt on the property."

The hunting is popular on Fola property because of the wildlife planning during reclamation. People in the community say there is more wildlife now than before mining.

"From a wildlife standpoint, we have had an increase in requests for hunting permits on this property," Isabell said. "We have problems here with bears getting in our warehouse. It's nothing to see 50 to 75 deer or 200 ducks here. We're proud of what we are leaving behind."

Showing the initiative to do better, Isabell said Fola approached a representative from Ducks Unlimited over two years ago at the West Virginia Mining Symposium.

"D.U. provided us with designs for drainage control systems and the best way to deal with habitat development and planting," he said. "We have some of the finest equipment operators building these systems. They take a lot of

interest in doing this because they are also hunters and fishermen."

Ducks Unlimited officials understand the significance of Fola going beyond state regulations when creating this type of water fowl habitat in West Virginia. They have visited the company's operation on numer-

"Opposition to coal mining is an insult to Fola employees."

Gary Patterson, president of **Fola Coal Company**

ous occasions to see the progress and to help Fola progress in the right direction.

"The whole purpose of D.U. is to preserve wetlands," said Rusty Eaton, Ducks Unlimited president for West Virginia. "They are disappearing at such an alarming rate and we don't have any wetlands here to speak of. When you go back and reclaim the land, it is probably more suitable in the aftermath for wildlife than it was before as far as providing a more diverse habitat."

Eaton also praised operators by saying "as far as mining reclamation is concerned, there are some tremendous jobs out there."

Patterson understands that reclaiming the land is important for the environment, the community and the future. He knows that company employees

are careful and take great pride when doing their jobs.

"Opposition to coal mining is an insult to Fola employees," he said.

Strong Production

A subsidiary of Amvest Corporation, Fola opened its operations in Clay County in 1993. By the end of 1994, they had mined over 800,000 tons of coal with 77 employees. Today, they mine an average of 4.5 million tons of coal per year.

"When we came here, we were a brand new company, there was no Fola Coal Company before us," Patterson said.

"We had the opportunity to put this company together from a lot of different backgrounds. We were able to learn from the industry's history and put all those thoughts together. So we started as a small company and now we are the largest employer in the county."

Fola has been able to sell all its coal to be mined this year. They also have more than four million tons of coal already designated for customers in

2002.

"All our coal is shipped by rail," Isabell said. "We can load about 5,000 tons an hour and use both CSX and Norfolk Southern to ship to our customers."

"We have compliance coal, which is a great thing for us," he said.

Isabell said about 60 percent of the coal is "direct" fuel, which means the high quality coal can be loaded directly into railcars without washing. He noted that most of the coal is extremely low in sulfur and well within federal air quality requirements.

Company officials are dedicated to Fola's success and have invested much time and money to make it the operation it is today. They are proud of the fact that the WA 1200 Komatsu loader, having a 26-yard bucket, was the first in West Virginia. And, the RH 200 O&K shovel, which stands 50 feet high, has the name "Red Rooster" painted on it side by one of Fola's talented employees.

According to Patterson, bulldozers and frontend loaders are the primary pieces of equipment



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for moving material. The key to mobility, he said, is that there should be many working faces going at one time. This operation is set up to surface mine coal as economically as possible, then use a highwall miner to finish the task.

The company extracts ten different coal seams. The 5-Block and Coalburg seams are the mainstays of the operation with about 60 percent of the total coal mined being the 5-Block.

In less than a decade, Fola Coal Company has become a leading corporate citizen, an essential component of Clay County's economy, and an essential component of the entire state of West Virginia.

"We aim to do things right. We pay particular attention in what we do to make sure it is right," Patterson said.

It shows.



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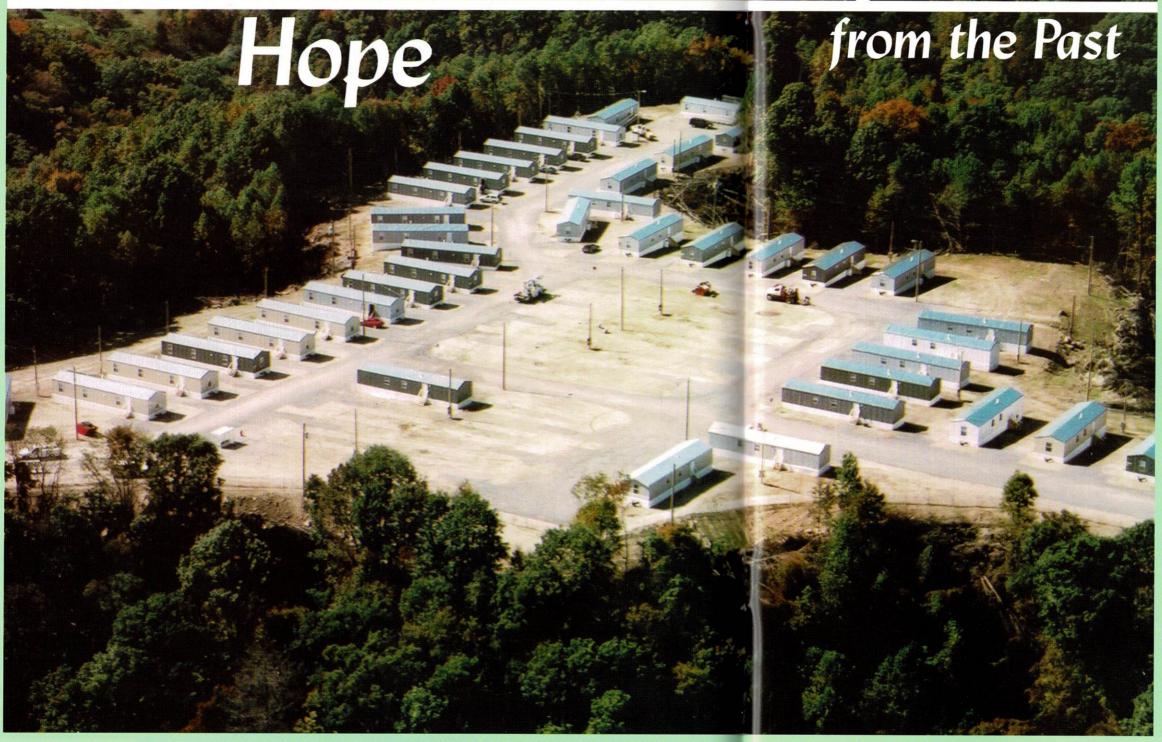
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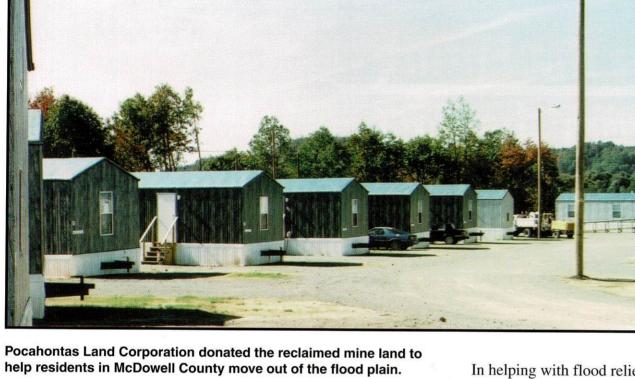
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rlie Jones lived in Keystone,
West Virginia, for eight years. Then he, along
with hundreds of other families, were ousted
from their homes by July's heavy rains earlier
this year.

They needed "New Hope."



Thirty years ago, Tracy Hylton, a well-known coal operator, knew McDowell County was going to need level land for future economic development. Landowner **Pocahontas Land Corporation** wanted to provide the county with that chance.

Even though they could not predict when it would happen, their vision and commitment to the region and high quality reclamation has given southern West Virginia "New Hope."

Today, thanks to Hylton's intuitiveness, vision and achievements, as well as Pocahontas Land's generosity and dedication to an improved quality of life for southern West

Virginia, "New Hope" has become a reality.

"In McDowell County there isn't any flat land," Hylton said. "It's God's blessing that we had the opportunity to mine it and leave it level."

Close to 70 displaced families have moved out of the flood plain to live at the newly created "New Hope Village," located near Welch at the top of Tom's Mountain in McDowell County.

"This is a great place," Jones said. "They really helped us out. I think they ought to make a sight like this more often after they mine coal. It's a place where I could live for a long time."

In helping with flood relief, Pocahontas Land Corporation, a subsidiary of Norfolk Southern Corporation, donated 42 acres of usable, flat land in McDowell County to the West Virginia Housing Development Fund (WVHDF) to aid recent flood victims. The land includes the 20 acres of reclaimed surface mine property at Tom's Mountain near Welch, 20 acres of a former coal camp in Anawalt and two acres near Kimball.

In addition to "New Hope" Village, Mount View High School, built in 1980, is located just a short distance away on the same Tom's Mountain reclaimed mine property. Were it not for Hylton and Pocahontas Land, it would have been much more difficult to have

helped families like Jones or have a suitable area for a school complex in McDowell County.

"We're glad that we were able to provide land that benefits the community and the region," said Danny Smith, president of Pocahontas Land Corporation.

Upon receiving the land, the WVHDF and the Army Corps of Engineers constructed new water and sewer infrastructure. The Federal Emergency Management Agency (FEMA) provided the initial housing for the new residents.

"This is the first major reclaimed site that we have used (for such a project) and hopefully it won't be the last," said Joe Hatfield, director of the WVHDF. "It's important that we get these people out of the flood zones and this is a good way to do it."

Future development is expected to involve conversion to subdivisions for permanent housing. Residents have the opportunity to use the temporary housing FEMA provided for 18 months. After that time, they will begin to pay

rent that will be used toward the cost of that unit.

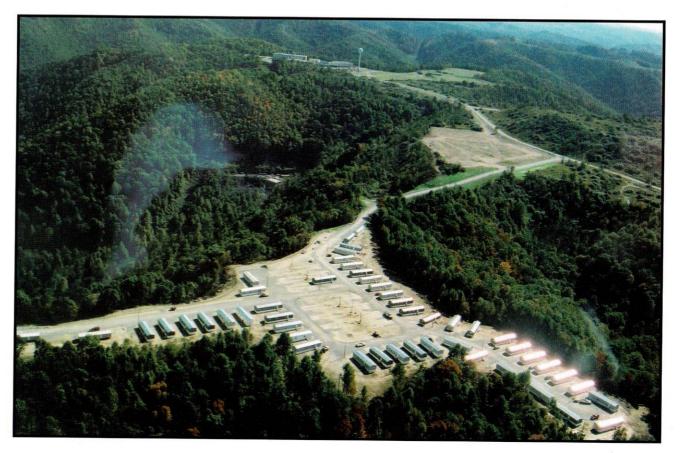
"What FEMA will do is sell that unit to a family or that family can take it to another location," Hatfield said. "After 18 months, we are going to start construction of permanent housing."

Hatfield knew that FEMA would be looking for housing sites when the flood occurred.

"We thought since the state has the responsibility for acquiring sites, we would talk to Pocahontas Land about this particular site," he said. "Once that was completed, we laid out the site and engineered it in such a way that it could be easily converted to make a subdivision of single family dwellings."

Pocahontas Land officials noted that this housing project is a clear example of what can be done on reclaimed mine land.

This aerial photograph shows the close proximity of Mount View High School (background) and "New Hope" Village, which are both located on reclaimed mine sites on Tom's Mountain.



land and in this part of the country, it is pretty much the only flat land that exists," said John Payne, general manager of operations, Pocahontas Land Corporation. "There is a reason to leave it flat because that makes it usable. In this particular instance, it was one of a very few options that gave people a chance to rebuild their lives. As devastating as it was, the flood gave us the opportunity to donate property that was reclaimed 30 years ago, to help the community."

"There are many uses

for reclaimed surface mine

"This is the first major reclaimed site that we have used (for such a project) and hopefully won't be the last."

Joe Hatfield, director of the West Virginia Housing Development Fund

Hatfield noted that the WVHDF had been talking with Pocahontas Land about various sites for several years.

He indicated that if regulations had permitted mines to leave infrastructure upon completion, it would be much easier for reclaimed sites such as Tom's Mountain to be used for development.

"New Hope" proves that even after 30 years, reclaimed mine land is a very viable option especially in an area where very little developable land exists.

"In the future, I think all reclaimed land will be used for economic development," Hylton said.

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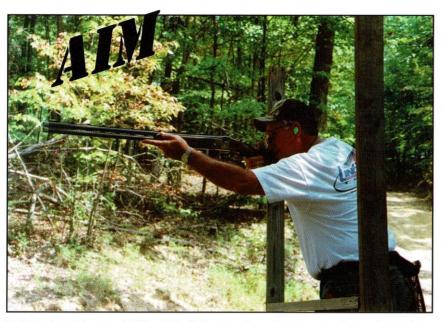
Hobet 21 hosts West Virginia's first ever national sporting clays competition.

The sounds of shot gun blasts ricochet off the company's metal administration building.

... Bam ... Bam. Pull!! BAM. BAM. . . . Bam ... Bam ... Bam.

These echoes, well known to any sporting clays enthusiast, are heard frequently at Arch Coal's Hobet 21 Mine, as the reclaimed operation was the site of a national competition.

Three years ago Cliff Higgerson, retired general manager at the surface operation, saw the potential for using a portion of the operation's reclaimed area to establish a recreational facility.



Ed Bosley, this year's West Virginia sporting clays state champion, takes aim during the "Hobet Cup," the national sporting clays competition.

"I saw this as an opportunity to start a sportsman's industry where there wasn't any," Higgerson said. "Boone County, to me, is the heart of sportsmen activity in West Virginia. I thought we should Pull!! BAM. BAM. . . . Bam have something like this. I didn't see it as creating lots of jobs; I never saw it that way. I saw sportsmen going out and saying that 'mountaintop mining has some real benefit."

> Higgerson contacted Mary and Ed Woody, owners of Hilltop Hunting Preserve, Inc., based in Chapmanville. He worked with the couple to lease 800 acres of Hobet's reclaimed 21 Mine for a gun club that would host an area for sporting clays, trap shooting and some bird hunting.

> > The Woodys had originally

approached officials at Dal-Tex with this idea, but the timing didn't seem to be right for that site. Then, after moving to the Hobet 21 mine several years ago, Higgerson approached the Woodys to see if they were still interested in the project at this particular site.

Today, the Woody's leased land has grown to 1,600 acres and Hilltop Hunting Preserve has sporting clays, trap as well as a hunting preserve. "Our upland bird hunting," said Mary Woody, "includes ring-necked pheasants, chuckers and quail." The Gun Club is open to the public all year. Anyone can shoot at the Club by making arrangements with the Hilltop Hunting Preserve. Since the Club is on Arch Coal's property, company officials have

opened a back entrance and the Woodys escort anyone coming to the club.

Mary Woody said the Club has a lot of people who shoot during the week with tournaments on the various weekends comparing it to golf tournaments.

"We usually do sporting clays from around April to October and bird hunting from September 1st to April 30th," she said.

National Comes to West Virginia

On September 7th and 8th of this year, Hobet 21 was host to another first. The Woodys organized the first ever "Hobet Cup," a national sporting clays competition, which had never been held in West Virginia.

About 30 people from West Virginia and the surrounding states competed in the first ever "Hobet Cup."

The course, sanctioned by the National Sporting Clays Association, has 16-stations

where competitors, in different classes, compete by shooting the best of 100 clays.

Clays can be released from behind trees, roll along the ground, toward the shooter, or away from the stand, making the course a challenge for any class of shooter.

"It's tougher than nails," Higgerson said about the course. "It's been touted as one of the toughest courses there is in the state." Bill Johnson, last year's state champion for West Virginia, won the "Hobet Cup" by breaking 87 out of 100 clays.

"After seeing this course, sportsmen have had nothing but praise about mountaintop mining," Higgerson said.

Several shooters take aim during the "Hobet Cup," a national sporting clays tournament held on Hobet 21 reclaimed land in September. The event was the first such tournament held in West Virginia. In the background is part of Hobet's 21 active operation.



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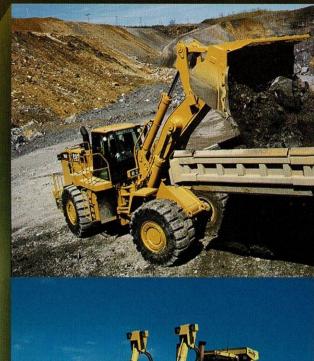
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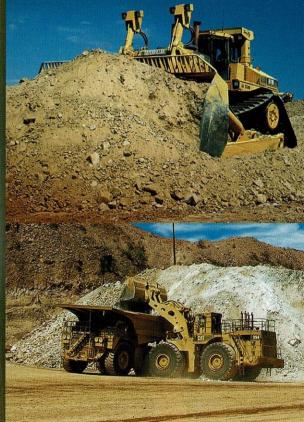


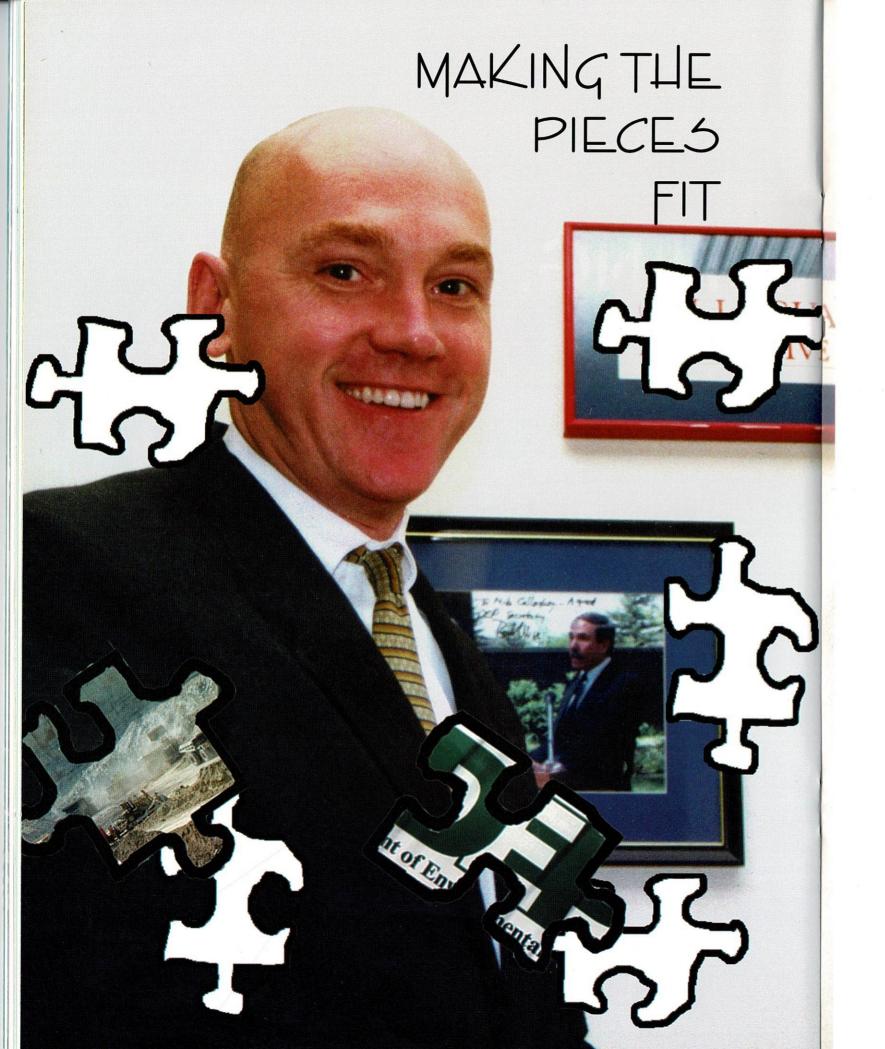
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Less than 10 years ago, Mike Callaghan began working with the U.S. Attorney's office in Charleston,

W.Va. In 1997, he became the chief of its Criminal Division supervising about 300-400 prosecutions every year. On February 9th, 2001, he was

sworn in as a Cabinet Secretary by West Virginia

Governor Bob Wise to lead the state's Depart-

ment of Environmental Protection.

In September, 2001, Green Lands caught up with Secretary Callaghan to speak with him.

One on One . . .

GL: Governor Bob Wise appointed you to head the Department of **Environmental Protection** and you were sworn in on February 9th of this year. Now that you have spent about seven months in this position, is it what you expected?

CALLAGHAN: I knew coming in it was going to be a very controversial job. The issues this agency deals with seem to polarize people, they have strong views on both sides of the issues. When I came here I had the goal of trying to find the appropriate ground for the DEP and where we should be. By definition, you are going to upset some people.

GL: Some say that heading the DEP is a thankless job. What made you leave a federal prosecutor's job and take this position?

CALLAGHAN: The reasons that I came here are many. It was a pretty exciting time for the DEP. There were several legal issues that are very significant, the mountaintop mining case was pending, the CHIA case was pending, the bonding issue was out there. I looked at it as a challenge. I like something where I could come in and make a difference in the way the agency conducted itself. A lot of people may look at it as a problem. I look at it as a challenge to come in, take an agency and put some direction to it.

GL: Did you think it was going to be more challenging than the prosecutor's job?

CALLAGHAN: I will just say I thought it

"I think we all know that coal is a vital part of the economic future of the country and for West Virginia. Whether you like that or not, that is the reality. Our country needs the coal for production of electricity if we want to maintain our growing economy and remain a world leader."

would be a different challenge. The things we are doing in the agency today will shape the direction of all mineral and gas extraction in West Virginia. It is going to shape the direction of the development of the chemical industry. Our decisions today will have a significant and far-reaching impact. So I viewed this as a good time to come in and get involved in these heavy issues and try to do good things for the state.

GL: What is your top priority as Secretary of the DEP?

CALLAGHAN: As I came in, the priorities were first to tackle anti-degradation, which we did in the Legislative session, and the unfunded bonding liability. They were probably the two major issues facing me. Another issue is

putting some stability in the administration. The number one goal for the DEP right now is to get all of the offices in the Kanawha Valley into one place. It is very difficult running an agency where you have heads of divisions strung out all over the valley. What I want to do, and what we are working on, is bringing everybody under one roof. If we can do that, I think we are going to have vast improvement in productivity of the workforce. Certainly they will be happier.

GL: How many employees and divisions are we talking about?

CALLAGHAN: We are talking about bringing in four divisions—air, water, waste and mining all into one house with about 500 employees. And, having everybody together as we start to grapple with harder issues, like improving the speed of permitting, which is a major issue. I think we are going to start to see improved efficiencies in the way we do things.

Those who have applied for a permit are entitled to a quick "yes" or "no" answer. That is the goal, to take the agency and get the efficiencies improved, so that we

can address the permitting issues in a more timely manner.

GL: The West Virginia Legislature passed a bonding bill during the special session in September. How do feel about this?

CALLAGHAN: I was very pleased that the Legislature adopted our

proposal. It went through almost unchallenged. The Senate was in unanimous consent and the House was overwhelming in their support for our true—if we have underestimated the liability and proposal. I've said all along, if you go to the Legislature, explain your problem and ask for help, they are very good to work with in trying to increase in that tax to meet the ongoing liability. step up to the plate and solve the problem.

GL: Do you think this is going to correct the bonding problem?

CALLAGHAN: Absolutely. There are two components to understanding the situation - on the day I took office, we had roughly \$47 million liability and we had about \$8 million in the bank. So, being that far in the hole, you have to figure out how to catch up. Once you get that figured out, how are you going to maintain things in the future so the problem does not come up again? The agreement we reached with the (West Virginia) Coal Association was to tax coal at 14 cents per ton, seven cents of that would only stay on for a period of 39 months. That will raise enough money to take care of what I've called

the "sins of the past," or the unfunded liabilities the state has, as of today. Basically, we are going to pay off our debt in 39 months.

The second 7 cents, which will be a permanent tax, is our projection as we look to the future. We need to figure out what our liabilities will be in the future and that will be based on reviewing the past by looking at the amount of

money it took to fix the problems of the past.

Now, the beauty of the plan is that we built into the legislation that second 7 cents which is to stay on and can be reviewed once a year. It is to be reviewed by a committee of people who have some expertise in this area and then we will make a recommendation to the Legislature. So,

for example, let's say my numbers are too high, we can lower that tax. But, the opposite is also we start to get more forfeitures, we are going to have to go back to the Legislature and ask for an

GL: Do you foresee taking any extra money obtained from the tax and using it elsewhere in the DEP to solve other problems?

CALLAGHAN: The special reclamation fund is not set up to do that, nor is this piece of legislation set up to do that. What we have is one specific problem that we've tried to address with one piece of legislation. I call it a "zero sum gain" working with the Special Reclamation Fund. The concept is that a few coal companies that are producing will go bankrupt. I think history has shown that. We have to have enough money to fix those sites back to the reclamation plan and that is the only thing the Special Reclamation Fund is set up to do. So could the money be used elsewhere? Sure it could. Is there any

desire by DEP to that? No. We just want to fix the bonding problem, get the sites out there fixed and treat the sites that we are going to inherit or get back in the future.

GL: In the Bragg v. Robertson case concerning mountaintop mining, are you pleased with the 4th Circuit Court of Appeals decision which overturned U.S. Judge Charles Haden by giving the state "exclusive jurisdiction?"

CALLAGHAN: I can't say I'm pleased or displeased. Here is what I think about the case: the 4th Circuit Court basically said "if you are going to delegate to a state the authority to run a program, then you need the state to

run the program." And, I think that is a very good concept as we look in West Virginia. We have to figure out how to solve our own problems with some guidelines by the federal government. What I think it does do, it allows this agency more ability to address specific concerns in the state of West Virginia and to find the appropriate solutions. The bonding problem that we talked about is a good example. That is our problem, it was our problem and that is the hand we were dealt. We had to deal with it and we did deal with it. So I think the 4th Circuit case recognizes that we as states, if we are going to step up to the plate and issue permits, then we have to do everything that comes with it. And if somebody is going to challenge West Virginia's permit applications or permit process, it needs to be done here in West Virginia. Overall, I think that

"We don't do a very good job of notifying issues. or letting the companies know the status of their permits. By talking to different

companies since I've

been in this job, part of

the vision is making

prediction and pre-

dictability a goal of the

permitting process."

is a good thing, and certainly, it allows our agency to do a better job and have more discretion as we work through these difficult

GL: Prior to the 4th Circuit Court's decision. the U.S. Office of Surface Mining and the DEP were concurrently reviewing coal mining permit applications. In light of the ruling, stating it is the state's responsibility, are you taking steps to separate yourself from OSM with regard to reviewing permits?

CALLAGHAN: My relationship with OSM, to date, has been very good. And they have given us several suggestions and have worked with us during the bonding proposal. The dual

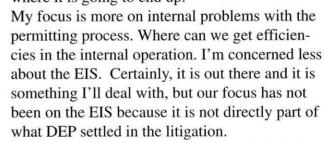
review of permits, I don't think is every permit. It is a select type of permit that is going through the peer review process with OSM. My goal is not necessarily to separate DEP from OSM, but take concerns raised by OSM, figure out if there is any merit or validity to them and then how can we take those concerns to do a better job in issuing permits. That is the concept we have with OSM. There are certain bottle necks that will always occur, but overall, I would say our relationship with OSM and the feedback we get under the duel review right now have been good. I would like to continue that to the extent that it can help improve the permitting process.

GL: The Environmental Protection Agency's draft of the Environmental Impact Statement was due out more than a year ago

and still hasn't been finalized. Its preliminary "releases" concerning valley fills and flooding have been positive towards the coal industry. What are your thoughts about the agency's participation? Its promptness?

CALLAGHAN: We were not involved in the settlement with the EIS. Certainly, we try to stay plugged into the issues since it will affect our

regulatory process in West Virginia. They are now in stage 2 of a 3stage process and you are right, it was supposed to be done a year ago. I can't tell you when it is going to be done based on hours of conversation I've had with everyone involved. As far as the DEP is concerned we are looking at it and we are just trying to figure out where it is going to end up.



We do have involvement with it, but I don't let the EIS hinder or change the way we do things internally. We are looking at great improvements in permitting and at the end of the day, once a permit is issued, we understand it will be challenged. So, we are focused internally on doing a good job in meeting the appropriate legal standards for the issuance of permits. And, when the EIS gets resolved and we figure out how that is going to be incorporated into the permit process, we'll certainly do that.

GL: Governor Bob Wise has made the statement that West Virginia has a great window of opportunity to help meet the

country's energy needs. What are your thoughts on that?

CALLAGHAN: The Governor and I have talked many times about the vision for the state. About 54 percent of electricity in 2000 was generated from coal. That number may go up or down slightly in the future, who knows, but understanding that, I think we all know that coal

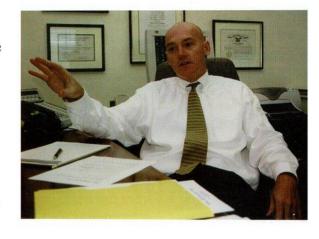
> is a vital part of the economic future of the country and for West Virginia. Whether you like that or not, that is the reality. Our country needs the coal for production of electricity if we want to maintain our growing economy and remain a world leader.

The Governor's vision, as he talks about the window of opportu-

nity, is that the focus of Washington is on states like West Virginia. What we don't want to do is have things like an inadequate bonding system stop the issuance of permits so to be sure that West Virginia can play its role in the development of this nation's energy. The focus for us is trying to solve these problems so that we can move forward.

One thing I've looked at quite a bit is the generation of electricity by coal burning plants. Right now, we export about 70 percent of our electricity to other states. That makes us vitally important to the states around us that need the electricity that is generated here.

I think there are other opportunities out there and I've had numerous discussions with other companies wanting to come into West Virginia to bring investment dollars to build power plants that are coal and natural gas fired. As we look to meet the demand, some states have to step up and issue the permits, but do it in a way that is environmentally friendly and that is what we are trying to accomplish here. We can have good



jobs and a clean environment; it's trying to make that delicate balance. The question is "how can West Virginia step up to the plate and help this country in its time of need for energy, but still put on controls to where we are responsible about the way we develop energy and we are responsible about the way we burn the coal to limit, to the extent possible, the emissions?" That

is the window we have now and it is going to be a brief window of probably a couple of years, and we certainly want to be a player in that.

GL: How will meeting this goal affect the permitting process for coal operators in West Virginia? What are you doing different now than in the past about issuing permits?

CALLAGHAN: The vision is to have this be a one-stop permitting process. When somebody applies for a permit, they can come into one office and get the all the permits needed to conduct a mining operation.

The vision also is to have that available to be done electronically. If companies would like that to be done that way, we can correspond via the Internet and e-mail and take the necessary information instead of having boxes and boxes of permit information. We could do that electronically and it will be a lot easier.

We don't do a very good job of notifying or letting the companies know the status of their permits. By talking to different companies since I've been in this job, part of the vision is making prediction and predictability a goal of the permitting process.

When somebody applies for a permit we want to respond to that company or individual, whoever it may be, and say "basically we have done a quick look at your permit and we expect

"Overall, I don't see a terrible mess in the coalfields. Most of the operators are responsible and try to do the right thing."

it to take 'x' number of months or 'x' number of years," whatever the time frame may be. I want to try and give them that predictability of when they can get their permit.

And again, spelling out the vision here. I would love to see this computerized to the point that somebody could come into our web page, look at our permitting process and track their own permits sitting at their desk.

That is the goal!

What we are doing in the interim is looking at a lot of things with respect to mining permits. We are trying to bring the more complicated permits, from the field, into Nitro. The reason we are doing that is we have more engineers and more people there that can push through the difficult permits. Out in the field, we are going to leave the easier or the more routine permits that are not so labor intensive. By doing that, I think we can push through permitting a lot quicker.

Another concept we are working on is an engineering pool. We are trying to figure out how to utilize our engineers by pulling them off some of the routine paper work and let them concentrate on pure engineering analysis. If we can do that, I think we are going to get improved efficiencies in our process.

GL: With the recent flood devastation in southern West Virginia, what are you doing to investigate the effects of construction, oil and gas, logging, development, highway and bridge construction, as well as surface mining?

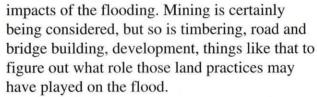
CALLAGHAN: The day after the flooding the Governor gave me two orders: one, he wanted to make sure that the impoundments out there were safe and not in danger of breaking. We went out to make sure that was the case and

we were pleased that the impoundments held their own during the floods.

The second is that the Governor asked me to take a look at mining and other activities that are out there, while it was fresh, so we can put some analysis to that and determine what practices may have contributed to flooding. That was the directive in a broad sense. It was not necessarily

focused on mining, it was on everything that was out there. What we have done since the flooding is we put together a task force which is going to be a steering committee with a broad base of interests. They will direct a technical committee that is going to be doing a review of what happened out there in the field.

We are looking at all



Let me focus specifically on mining for a minute. The goal is to try and figure out what practices could be done that would have less of an impact. And I don't know that can or cannot be done. The concept is to determine, for example, the way we are doing valley fills right now, is that the best way to do it? And, is there a better way to do it to minimize flooding? That is the kind of thing we are trying to look at to determine a better way that we, as an agency, could regulate the coal industry to diminish the possibility of flooding. No conclusions have been reached. We are just trying to figure out what happened out there, how the flooding occurred in some of these areas and try to put some analysis to the way the agency conducts itself and what kind of practices may be more environmentally friendly.

GL: Can you go into more detail about this task force and who will be on it?

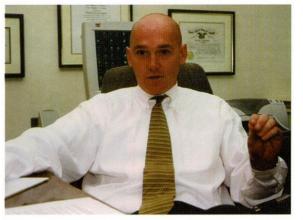
CALLAGHAN: The Governor, by Executive Order, put together a task force that consists of those who are involved in the extraction of the minerals, environmental interests, citizens interests, county commissioners where the flooding occurred, and some legislators. The

> idea is to bring all these people together and see if we can come up with some conclusion about what occurred during the flooding and if there are better ways to do business. It is a broad based approach to try and figure out what can be done better. Again, you always want to be focusing on how can you improve your regulatory

function as an agency. Are there better ways to do mountaintop mining? Are there better ways to do valley fills and build sedimentation ponds? We did have a few sedimentation ponds at the bottom of valley fills that did not hold. They were not large, like the impoundments, but they did wash over and we had some problems. We are going to be looking at those things to see if we, as an agency, can do things better.

GL: DEP has three streams under investigation in southern West Virginia concerning the recent flood: Seng Run, Sycamore Creek and Scrabble Creek. What are the expected completion dates of the study and what will be done with the findings?

CALLAGHAN: There have been meetings to address this. I would like to see something come from the committee before the end of the year. I don't know if we could have final results at that stage, but I think we need to do something as quickly as we can. This is being headed up by Matt Crum in our Mining Division, who has



been working with Ed Griffith. They have been trying to put these people together for the committee.

GL: When the task force has completed its findings, could they result in regulatory changes in various DEP programs administered?

CALLAGHAN: It depends on what the findings show. Certainly, if the conclusion is some mining practice contributed heavily

to the flooding, then we would have to review that mining practice and figure out if there is a better way to do that practice. The mining practice may be 100 percent lawful under all rules and regulations, but it still might not be the best way to do it. That is what we are trying to figure out. Are there better practices that we can implement that will reduce or prevent the possibility of flooding in the future? Any action we do would be based upon what conclusion is reached after studying this and bringing in the scientific personnel who can put some analysis to it.

GL: With concern about mining and the recent flood, would you then not expect flooding to occur in these areas if there was no mining activity?

CALLAGHAN: You have to start with reality: when you get a whole lot of rain in a short period of time on very steep terrain, you are going to have problems. The question is "Does the way we manage our land have any effect on the flooding?" That is the question that needs to be answered. If it did have an effect, what effect did it have? I am not going to prejudge where the committee will come down on their decision. I think your questions is "You got a lot of water down there, don't you expect flooding?" "Yes" is the answer to that, but we

"You have to start with

GL: Has your on

reality: when you get a

whole lot of rain in a

short period of time on

very steep terrain, you

are going to have

problems."

GL: Has your opinion of the coal industry changed since taking this job?

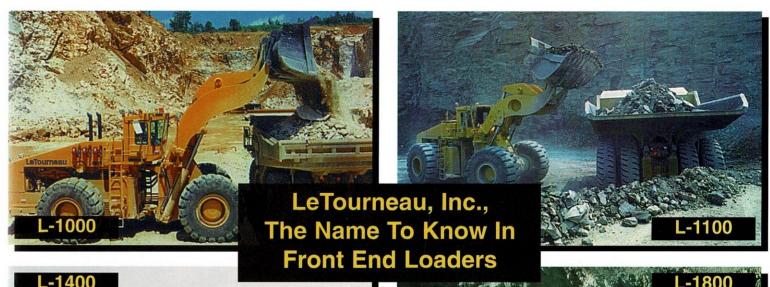
CALLAGHAN: It hasn't. I would say that my opinion has not changed at all. The coal industry is there because we have the natural resources in West Virginia and coal is needed for a variety of reasons. I don't have feelings one way or

another about the coal industry. My role is not to promote coal or to detract from coal. My role is to take the rules and regulations that are out there and make sure that the companies follow those rules and develop their extraction methods in an appropriate manner.

Overall, I don't see a terrible mess in the coalfields. Most of the operators are responsible and try to do the right thing. That was my opinion before I took the job and that is still my opinion. You do have a few bad actors that have to be dealt with, but overall you have an industry that does a lot to try to comply with the laws.

GL: Due to the coal operators' contributions, the Abandoned Mine Lands fund has more than \$1.5 billion sitting idle in Washington D.C., whith about \$62.5 million of that coming from West Virginia. Do you see any new avenues to return the money to this state?

CALLAGHAN: There is a lot of money out there and there is a lot of discussion about how this state should be getting some of that money back. Our agency is in favor of releasing more money out of Washington, D.C because we have real examples where the money is needed. Now, how do we get that job done? I can't tell you that I've got a cure-all for that. It's an issue that's been debated for years and years.





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And with today's product line, which consists of the

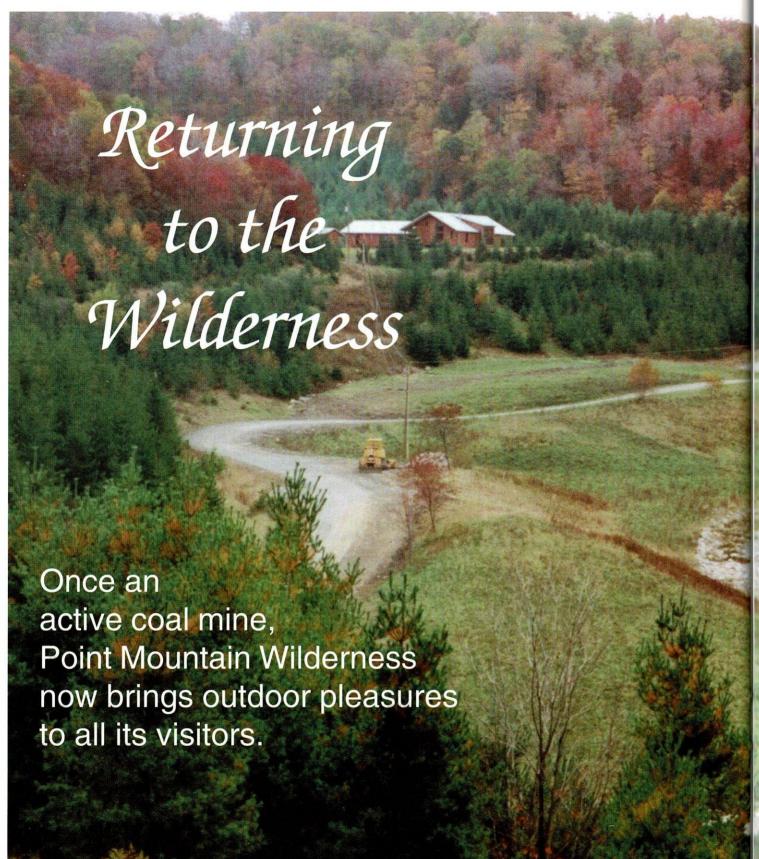
L-1000, L-1100, L-1400, and L-1800, LeTourneau offers the largest complete line of production front end loaders available.

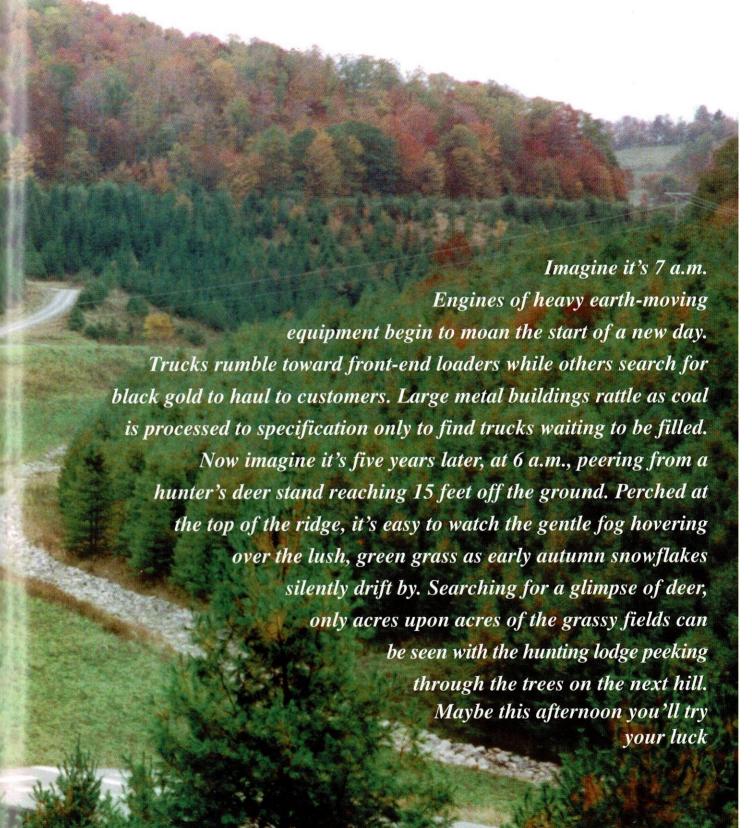
So when only the best-built, finest quality, most productive loader will do, remember LeTourneau, the name to know in front end loaders.

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Operating Payload									
Standard	51,000 lbs. (23,133 kgs.)	66,000 lbs. (29,937 kgs.)	84,000 lbs. (38,102 kgs.)	100,000 lbs. (45,360 kgs.)					
High Lift	48,000 lbs. (21,733 kgs.)	60,000 lbs.(27,216 kgs.)	78,000 lbs. (35,381 kgs.)	94,000 lbs. (42,638 kgs.)					
SAE-Rated Bucket									
Capacity									
Standard	17 yd ³ (13.00 m ³)	22 yd ³ (16.82 m ³)	28 yd ³ (21.4 m ³)	33 yd ³ (25.2 m ³)					
High Lift	16 yd ³ (12.00 m ³)	20 yd ³ (15.29 m ³)	26 yd ³ (19.9 m ³)	31 yd ³ (23.7 m ³)					
Dump Heights									
Standard	18'-5" (5.61 m)	18'-10" (5.74 m)	21'-6" (6.55 m)	22'-0" (6.71 m)					
High Lift	19'-10" (6.04 m)	20'-0" (6.10 m)	23'-6" (7.16 m)	24'-0" (7.32 m)					



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at fishing the trout pond or stroll down a few trails and admire the multicolored trees or encounter them a little more aggressively by mountain biking.

It's hard to believe that this calm, grassy field, covering about 150 acres, had harbored coal mining activity since the 1930's.

Today, it is the Point Mountain Wilderness area located near Monterville in Randolph County. The wilderness area encompasses 2,600 acres, covering the Hewitt Fork and the Coalbank drainage area and includes a new hunting lodge which is built on reclaimed mine land.

The only way this recreational area project came to be

was solely due to the outstanding reclamation work by the West Virginia Department of **Environmental Protection and** Fairfax Trucking now operating as Polino Contracting, Inc.

"If this reclamation had not been done in the quality job that it was, this lodge would never have been built," said landowner Charlie Kelly.

"Originally, we had no intentions of doing this. It was after we saw the superb reclamation we changed our minds. It was just a first rate job."

Over the course of time. within the Hewitt Fork drainage there have been three surface mines, one auger mine, six deep mines, one preparation plant with two slurry ponds, a refuse area, three coal stock

pile areas, and one valley fill.

Crossing over into the Coalbank drainage, it once had two surface mines and four deep mines.

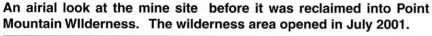
Bethlehem Steel operated on this site during the early part of the 20th century selling coal for steel used during World War

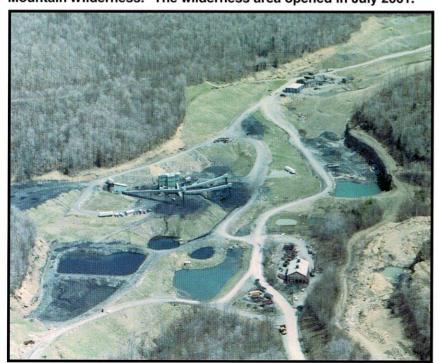
The most recent company, Phoenix Resources, mined metallurgical coal, but could not survive the downturn in the steel industry and filed for bankruptcy in 1994.

"While they were in business, they did a very good job reclaiming the property," said Larry Guthrie, DEP Environmental Resource Specialist and inspector of the property for 15 years.

The major part of the reclamation was on the Hewitt Fork drainage area. Polino Contracting began reclamation on more than 150 acres in January of 1999 and finished in October later that year. Cost of the project was \$1.4 million. Total contracting was paid for through the Special Reclamation Fund, which is funded by the West Virginia coal industry.

"At the time planning this reclamation work, we did not perceive what it was going to be," said Charlie Miller, Program Manager at DEP. "But we are happy to reach this type of post mining land use for the property. It is significant to us to have this turn into a success-







A deer stand strategically placed to overlook Point Mountain Wilderness property.

ful and productive site. A lot of that credit goes to Polino Contracting."

The DEP normally begins the reclamation process on bond forfeitures within six months after mining ceases on an area. Miller said this site was a fairly low priority due to no significant health, safety or environmental issues.

Yet thanks to the planning and execution by the DEP and Polino Contracting and later the imagination of Kelly, this site has turned out to be a real jewel for post mining land use in West Virginia.

"The DEP and Chris Polino and his crew did an outstanding job," Kelly said. "I'm not sure too many people had the imagination of what this was going to be in the beginning."

Open for Business

This past July, the Kellys dedicated the new

Major Players - These men made it all Happen. They are (I-r) Charlie Miller, Program Manager at DEP Larry Guthrie, DEP Environmental Resource Specialist Charlie Kelly, owner of Point Mountain Wilderness: Chester Cromer, Distrcit engineer for the DEP; and Chris Polino, president of Polino Contracting, Inc.

lodge and opened the area to visitors. In just the few short months, people have visited the site from surrounding states and as far away as New Hampshire. Kelly said the fall hunting season is booked solid.

The Point Mountain Wilderness can lodge up to 14 visitors and offers hunting trips from one to several days. Game includes deer, turkey, pheasants, and quail. Fishing, sporting clays and more than 12 miles of trails for mountain biking or hiking is also available.

"One couple from Germany even wanted to have their honeymoon here," said Connie Corcoran, general manager of Point Mountain Wilderness.

Traveling towards the lodge, the road passes by a small portion of highwall. A beautiful trout pond with excellent water quality, primarily from an old underground mine, provides a constant source of recreation for this well-stocked facility. "We wanted to leave it there," Kelly said, "as a reminder of what used to be here and as a conversation piece."

Kelly is looking for niche markets like small groups of executives that would come here for a retreat. "Some companies send clients on hunting trips to Colorado," he said. "We would like to attract that clientele here. We're closer and we think we can compete with that market."

A portion of the Point Mountain Wilderness property has been in Kelly's wife's family since 1899. Then, over the years, they increased the ownership to the current 2,600 acres.

While standing on the lodge's porch, Kelly gazes out into the grassy field. A mist begins to dampen the brilliant fall colors of nearby trees. "It's amazing to think that none of this would exist if the quality of work had not been what it was," he said.



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West Virginia Coal Association

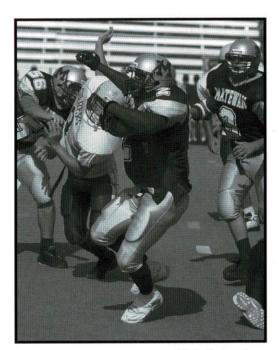
Eight high school football teams from across southern West Virginia participated in the WVSPN Coal Kickoff Classic at Laidley Field, Charleston, that opened the season across the state.

First time co-sponsor—West Virginia Coal Association added a new dimension to the Classic, now in its third year.

The WVCA presented a total of \$4,000 in college scholarships to participating players on each team. One player was selected from each team and received a \$500 scholarship.

"We are excited to be a part of a such great event which has some of the state's greatest athletes participating," said Bill Raney, president of the WVCA.

Below is the list of scholarship winners and their high schools:



Calvin Joplin, Matewan High School

Josh Chapman
Joey Spano
Trey Breckenridge
Calvin Joplin
Preston Lilly
Justin Smith
Jared Stephens
Cy Williams

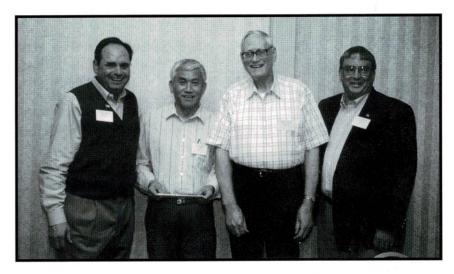
Riverside HS
George Washington HS
Capital HS
Matewan HS
Gilbert HS
Wyoming East HS
Hurricane HS
James Monroe HS



Preston Lilly, Gilbert High School

Provides College Scholarships

During its Fall Board Meeting the West Virginia Coal Association presented two annual contributions for college scholarships to West Virginia University.



The Julius W. Singleton Memorial Scholarship was established in 1966 and endowed in 1990. The scholarship is awarded to a deserving mining and engineering student attending WVU.

Pictured at left for the check presentation are (l-r): Steve Capelli, WVCA First Vice Chairman; Dr. Syd Peng, Director of WVU's Mining Program; Royce Watts, Associate Dean, College of Energy and Mineral Resources; and Ben Greene, WVCA Association Chairman.



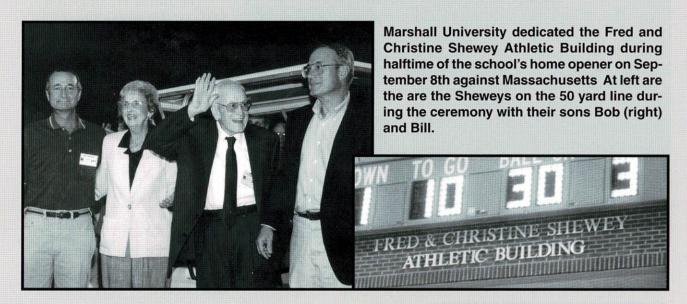
The Edwin K. Wiles
Memorial Athletic Scholarship was established in 1994 in
memory of the former president
of the WVCA, who lost his life
in the September 1994 crash of
U.S. Air 427 in Pittsburgh.

Pictured at left for the check presentation are (l-r): Ed Pastilong, WVU Athletic Director; Steve Capelli, WVCA First Vice Chairman; Gary McPherson, Director, Mountaineer Athletic Club; and Ben Greene, WVCA Association Chairman.

Awards and

Recognitions

Sheweys Honored By Marshall University



On September 8th, 2001, Fred Shewey didn't get his wish.

"I would rather keep my name out of it," he said. "I'm not one to have my name out front."

Now Fred and with his wife of 63 years, Christine, have their names etched in stone, as it were.

Marshall University honored Fred and Christine by having the athletic facilities building named the "Fred and Christine Shewey Building" during halftime of the school's home opener.

Now, they will be famous in Huntington, at least during football season.

Don Blankenship, president of Massey Coal Services, initiated the idea to have the building dedicated to the Sheweys.

"Don Blankenship is an awful good friend

of mine and he thought the thing up," Fred said.

"People like him, along with Lawson Hamilton and Buck (Harless), are the ones I will never forget. They are the greatest people I have ever met. Buck and I have had a wonderful business relationship for the past 50 years."

Fred, who has lived in Mingo County all his life, said he doesn't know how much he has given to charities and schools. But promoting education has always been important to him. Recently, he had the Kermit Middle School Gymnasium named after him due his financial help of getting the build constructed.

Shewey also said a memorable time was after he was elected to the board of education in Mingo County in 1955.

(See Shewey on page 59)

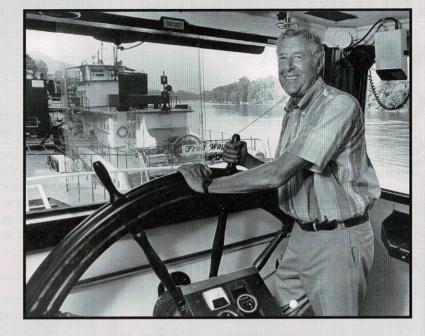
Jones Recognized by National Rivers Hall of Fame

Charlie Jones, president of Amherst Industries, Inc., Charleston, W.Va., was presented the National Rivers Hall of Fame Achievement Award at its National Waterways Conference in Louisville, Kentucky, in late September.

The national award was presented to Charlie for his service and substantial contributions and promotion of the West Virginia riverboat industry.

Amherst operated the last coal-fired steamboat in towing service on the Kanawha and Ohio Rivers, the Herbert E. Jones, which was retired in 1960.

Today, his company operates the largest fleet of



sternwheeler towboats in the world, including the oldest propeller driven inland river towboat in service.

The mission of the National

Rivers Hall of Fame is to collect and preserve stories of the men and women who have made significant contributions in history on American rivers.

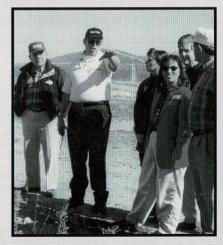
Jim Mullins Recognized as Holmes Safety Leader

Jim Mullins, general manager of Mingo Logan Coal Company, was awarded the Holmes Safety Association's Coal Safety Leader of 2000 during the 18th Annual State Holmes Safety Association meeting in June.

Nominees for the award are evaluated upon creativeness, sincerity, commitment, awards, attitude, influence, involvement, communication and results in helping to promote safe mining in the coal industry.

Mullins was nominated for the award by Bill Wooten, president of the Aracoma Council.

Mullins, a native of Mc-Dowell County, graduated from Virginia Polytechnic Institute with a degree in mining engineering. He was honorably discharged from the U.S. Air Force as a decorated Vietnam veteran.

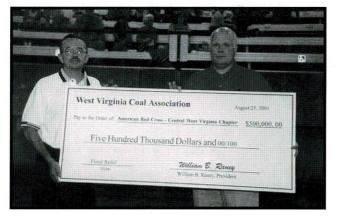


Jim Mullins, (second from left) general manager of Mingo Logan Coal Company, speaks to a group of visitors about the company's surface operation.

In early July of this summer, floodwaters ravaged communities of southern West Virginia. West Virginians quickly rallied to help their neighbors recover from the devastation which included members of the coal industry. Not only did these companies donate money to several different organizations, but company personnel using heavy equipment spent numerous days working to help get the area get back to normal circumstances.

The state's coal industry was also there to help the American Red Cross in its efforts and raised \$500,000 for the organization. In a symbolic ceremony of that effort, a check was presented to John Ash of the Red Cross' West Virginia chapter, during the WVSPN Coal Kickoff Classic at Laidley Field in Charleston on August 25.

Ford Coal Company, Eastern Associated Coal Corporation and Massey Coal Services pledged \$100,000 each towards helping the Red Cross and clean up efforts. Other coal companies and organizations participating in donating to the Red Cross were: Norfolk Southern, International



On behalf of the state's coal industry, Bill Raney (left), president of the West Virginia Coal Association, presented a check for \$500,000 to John Ash, executive director of the American Red Cross, West Virginia chapter during the WVSPN Coal Kickoff Classic at Laidley Field in Charleston on August 25.

Industries, AEI, Pen Coal Corp., Amherst Industries, W.Va. Coal Foundation, Cecil I. Walker Machinery Company, Rish Equipment Company, Peters Creek Coal Association, and Anker Energy Corp.

Also, in early October Peabody Energy, through its subsidiary, Eastern Associated Coal, donated an additional \$400,000 to the Red Cross for aid in flood recovery activities in West Virginia.



Massie Reclamation, Inc., pictured washing a road outside of Mullens, was one of many companies that helped with the cleanup after the flood that hit southern West Virginia in early July of this year.

Shewey from page 56

"One of the highest points in my life was when we had quite a bit of unrest in the school system and I help saved the school system," he said. "It was already gone and it took a lot of my time, but the school was run down to nothing."

Vice President of International Industries,

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Shewey moved to the town of Grey Eagle when he was just six weeks old and has lived there ever since.

Shewey has been associated with coal most of his life. His father operated War Eagle Coal Company. Later, Shewey said, his father bought the Grey Eagle Coal Company in mid 1930's.

He helped his father business until about 1950. Later, he partnered with Buck Harless around 1960 and they have been working together ever since.

"We are like brothers," he said.



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O about half O just looked at the photos

O only read the technical article

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O cover to cover

O more than half

O about half

O less than half

O just look at the photos

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Awards and Recognitions	1	2	3	4	5	N/A	
Giving New Hope	1	2	3	4	5	N/A	
Taking Aim	1	2	3	4	5	N/A	
Returning to the Wilderness	1	2	3	4	5	N/A	
Overburden Analysis and Special							
Handling at Fola Coal Company	1	2	3	4	5	N/A	

Please provide an addtional comments

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Overburden Analysis and Special Handling at Fola Coal Company

Mike Isabell **Fola Coal Company**

and

Jeff Skousen **West Virginia University**

Fola Coal Company is a mountaintop mining operation in Clay and Nicholas Counties, employing over 300 people. Using six spreads of equipment to mine 12 seams, Fola produces approximately 4.5 million clean tons per year of low sulfur coal, which is sold on the steam market.

Coal seams recovered during mining operations include the Freeport, three splits of the Kittanning, 5-Block, Clarion, Clarion Leader, Stockton A, Stockton, and three splits of the Coalburg. All seams are not always present and geologic layers vary across the property. The 5-Block and Coalburgs are the major mining horizons on all permits. In situ in 1993. Overburden analysis for this permit sulfur is >1% on the majority of these seams, with the exception of the Stockton, which has been tested as high as 6%.

operational balance of 60% direct ship coal, with the remaining 40% going to a 550-ton per hour preparation plant. Clean coal is transported from the plant directly to the train by an overland belt that is approximately 6,500 feet in length and drops over 500 feet in elunit train of 115 cars of 100-ton capacity averages three hours.

Mining techniques involve the use of an O&K hydraulic shovel with a 30 cubic yard bucket, a 1200 Komatsu loader, two Caterpillar 994 loaders and two Caterpillar 992G loaders. Haulage power is provided by a variety of trucks ranging from 100-ton to 210-ton capacities on roads maintained to slopes no

greater than 12%. A fleet of seven D-11 dozers, including a D-11C carry dozer, produces an average of 350 bank cubic yards (bcy) per hour per machine. Benching, sloping and reclamation activities are carried out by six D-10 dozers. Operations are designed with a target raw strip ratio of approximately 11 to 1 with daily production averages topping 150,000 bcy of overburden moved per day. This mining method provides unique opportunities for handling overburden in an area were steep slopes are the norm and variability in the quality of the material changes from cut to cut.

Fola began mining on Surface Mine One revealed no unusual problems, with a majority of the overburden layers testing in the 0 to +15 tons/1000 tons range, which indicated Fola Coal Company tries to maintain an neutral to excess alkalinity in these rocks using standard Acid-Base Accounting procedures (Sobek et al., 1978). As the reclamation phase of the permit came to completion. manganese levels began to increase in water of outflows from two valley fills.

A permit for Surface Mine Two was issued evation to a batch loadout. Loading time for a in 1994 using the same overburden analytical techniques, but included a more detailed handling plan for placement of pit cleanings and toxic strata associated with the Stockton seam. After several years of mining on Surface Mine Two, poor water quality began to appear in an area referred to as North Ridge.

> By this time the quality of the water on Surface Mine One had degraded to the point of requiring treatment. Acidity levels were rang

ing from 10 to 30 mg/L as CaCO₂, with manganese levels approaching 30 mg/L depending on the flow. So installation of treatment systems to maintain compliance for manganese on both sites was required.

In 1997, Fola began extensive overburden testing to determine what caused the trend toward poor water quality when available information from Acid-Base Accounting indicated that it should not occur. Field inspections were carried out on Surface Mine One and on North Ridge, which revealed one major similarity. In several areas where sandstone was exposed to weathering, a green tint was noticeable on both the sandstone rock used for riprap in flumes and spillways, and on exposed highwalls along the haulroad.

A review of Acid-Base Accounting data showed the sandstone strata in these highwall areas (layers 7-18) exhibited net neutralization potential (NNP) values of -7 to +9 tons/ 1000 tons, which suggests that these rock layers should produce slightly acidic to slightly alkaline water (Table 1). The predominant layer, located between the Upper and Middle Kittanning coal seams, is a very hard, white to gray, homogeneous unit that varies in thickness from 10 to 30 feet. Located high in the geologic column, it is easily accessible, making it a prime candidate for construction material.

Procedures in performing Acid-Base Accounting for both Surface Mine One and Two used distilled-ionized (DI) water in the process. Current literature, such as "Coal Mine Drainage Prediction and Pollution Prevention in Pennsylvania" (Brady et al., 1998), and "the els as high as 50 mg/L. modified NP method" (Skousen et al., 1997), recommends using hydrogen peroxide as an oxidant in the Acid-Base Accounting process. The modified NP method of Skousen et al. (1997) recommends adding 5 ml of 30% hydrogen peroxide to allow for complete oxidation of iron during NP testing.

The reason for adding hydrogen peroxide is that siderite and other ferrous iron overburden materials do not have enough time for complete oxidation from the ferrous form to the ferric form during the procedure. Acidity is generated as ferrous iron oxidizes and precipitates as ferric hydroxide. So the modified method with hydrogen peroxide allows for complete oxidation of the iron and the generation of acidity. As the new modified NP method with hydrogen peroxide was used during Acid-Base Accounting on our overburden rocks, it was clear that some of the acidity in the rocks was not being accounted for by the old NP procedure of Sobek et al. (1978).

To produce results that more closely resembled the effects of weathering on overburden strata, Fola made contact with several laboratories to discuss the potential of changing the sample analysis procedure to include hydrogen peroxide during Acid-Base Accounting. Samples of the green sandstone were taken from the Middle Kittanning interburden and subjected to the modified NP procedure. The results were compared to old Acid-Base Accounts done on the same rock samples using only DI water. The comparison revealed a distinct difference in NNP values. With the modified NP procedure, strata that before had values of -7 to +9 tons/1000 tons now showed ranges of -17 to 0 tons/1000 tons (Table 2). The majority of these newly analyzed samples would be interpreted to be potentially-toxic, thereby requiring special handling. In addition, leachate produced from these sandstones in laboratory studies produced manganese lev-

With these results in hand, Fola instituted a program to map the overburden on current operational areas to determine if any other strata showed such variations. Our mining methods play a major role in the design of the mapping program. With six spreads of equipment working on different strata, we now

Table 1. Acid-Base Account with no peroxide added during NP analysis.

NO Peroxide Added

Company: Fola Coal Company CORE F-128-98

Calcium Carbonate Equivalent in Tons/1000 Tons of Material

				,			GC .		Net Neutralizers		
Sample Number	Sample Interval	Thickness	Rock Type	Color	Reaction with HCL	% Sulfur	Potential Acidity	Neutralization Potential	Deficiency	Excess	Paste pl
1	8.00-12.30	4.30	SS	2.5YR7/3	0	0.01	0.31	0.23	0.08		5.8
2	12.30-14.40	2.10	SS	10YR7/2	0	0.01	0.31	0.08	0.23		6.5
3	14.40-15.00	0.60	MS	10YR5/1	0	0.09	2.81	-1.03	3.85		3.8
	15.00-17.10	2.10	COAL					E			
4	17.10-17.25	0.15	MS/CARB	10YR6/1	0	0.04	1.25	-0.02	1.27		4.2
5	17.25-18.10	0.85	MS	10YR7/1	0	0.01	0.31	0.57		0.26	5.0
6	18.10-20.10	2.00	MS	10YR6/1	0	0.04	1.25	0.43	0.82		4.6
	20.10-24.00	3.90	COAL		0						
7	24.00-24.70	.70	MS	10YR6/1	0	0.07	2.19	1.37	0.82		5.0
8	24.70-26.00	1.30	SS	10YR6/1	0	0.05	1.56	1.27	.30		5.0
9	26.00-28.00	2.00	SS	2.5YR6/2	0	0.22	6.88	1.37	5.51		4.5
10	28.00-30.00	2.00	SS	10YR7/1	0	0.06	1.88	0.65	1.23		4.9
11	30.00-34.00	4.00	SS	10YR6/1	0	0.14	4.38	-0.02	4.39		4.7
12	34.00-39.00	5.00	SS	10YR7/1	0	0.12	3.75	-0.71	A.46		8.2
13	39.00-44.00	5.00	SS	10YR7/1	0	0.09	2.81	4.44	¢ 7	1.62	6.1
14	44.00-47.65	3.65	SS	10YR7/1	0	0.11	3.44	2.78	0.66	,	6.3
15	47.65-49.10	1.45	SS/CARB	10YR/4/2	0	0.33	10.31	6.88	3.43		5.0
16	49.10-51.65	2.55	SS	10YR7/1	0	0.06	1.88	11.09		9.22	5.7
17	51.65-52.45	.80	SS/CARB	10YR4/1	0	0.31	9.69	2.93	8.76		4.4
18	52.45-53.35	.90	SS	10YR5/1	0	0.11	3.44	2.03	1.40		4.7
19	53.35-58.00	4.65	SS	10YR7/1	0	0.10	3.13	0.25	2.87		5.5
20	58.00-63.00	5.00	SS	10YR7/1	0	0.08	2.50	0.33	2.17		5.8
21	63.00-68.00	5.00	SS	10YR7/1	0	0.12	3.75	1.17	2.58		6.2
22	68.00-69.50	1.50	SS	10YR7/1	0	0.11	3.44	0.90	2.54		6.6
23	69.50-73.00	3.50	SS	10YR6/1	0	0.18	5.63	3.59	2.03		6.0
24	73.00-78.00	5.00	SS	10YR7/1	0	0.07	2.19	0.48	1.71		6.3
25	78.00-81.20	3.20	SS	10YR7/1	0	0.06	1.88	0.85	1.03		6.3
26	81.20-85.90	4.70	SS	10YR7/1	0	0.06	1.88	2.38		0.51	6.7
27	85.90-90.30	4.40	SS	10YR7/1	0	0.02	0.63	1.17		0.54	6.9

As Reference in EPA manual: EPA-600/2-78-054; Field and Laboratory Methods Applicable to Overburden and Minesoils

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sample the interburden of every seam of coal within the geologic column. Central Testing. Inc., in Summersville, WV, provides reliable laboratory services and quick turnaround time so mining supervisors can compare the new Acid-Base Accounting results using hydrogen peroxide to the old Acid-Base Accounting data in the original permit. This allows decisions about handling the various materials to be made before placement occurs.

manner. Depending on the size of the bench, 3 to 5 drill-cutting samples are obtained from each shot and delivered to the lab the same day as drilling. These samples are analyzed using the hydrogen peroxide NP procedure of Skousen et al. (1997). Turnaround time for the results is around 36 hours. By sampling each shot, mine foremen are provided with upto-date information on the quality of the overburden for each spread of equipment operat-Sampling is carried out in the following ing on their shift. The mobility of the equip-

Table 2. Acid-Base Account with peroxide added during NP analysis.

Peroxide Added

1			Assessment of the second					F 19	Net Neutralizers		
Sample Number	Sample Interval	Thickness	Rock Type	Color	Reaction with HCL	% Sulfur	Potential Acidity	Neutralization Potential	Deficiency	Excess	Paste pH
× 1	8.00-12.30	4.30	SS	2.5YR7/3	0	0.01	0.31	0.51		0.20	5.8
2	12.30-14.40	2.10	SS	10YR7/2	0	0.01	0.31	0.78		0.47	6.5
3	14.40-15.00	0.60	MS	10YR5/1	0	0.09	2.81	-1.13	3.94		3.8
	15.00-17.10	2.10	COAL		0				10 10 10 10 10		
4	17.10-17.25	0.15	MS/CARB	10YR6/1	0	0.04	1.25	-0.25	1.50		4.2
5	17.25-18.10	0.85	MS	10YR7/1	0	0.01	0.31	1.02	CW Broke	0.71	5.0
6	18.10-20.10	2.00	MS	10YR6/1	0	0.04	1.25	0.17	1.08	Bedrein C.	4.6
	20.10-24.00	3.90	COAL	Ero mi saceles	0		8 9575			0.75	100
7	24.00-24.70	.70	MS	10YR6/1	0	0.07	2.19	1.96	0.23		5.0
8	24.70-26.00	1.30	SS	10YR6/1	0	0.05	1.56	(-0.74	[2.30		5.0
9	26.00-28.00	2.00	SS	2.5YR6/2	0	0.22	6.88	-4.02	10.90	REVENUE OF	4.5
10	28.00-30.00	2.00	SS	10YR7/1	0	0.06	1.88	-3.43	5.31	Service Control	4.9
(i) g 11	30.00-34.00	4.00	SS	10YR6/1	0	0.14	4.38	-7.80	12.71	I said on	4.7
12	34.00-39.00	5.00	SS	10YR7/1,	0	0.12	3.75	2.35	1.40		6.2
113	39.00-44.00	5.00	SS	10YR7/1	0	0.09	2.81	1.37	1.44	A Maria Carlo	6.1
14	44.00-47.65	3.65	SS	10YR7/1	0	0.11	3.44	3.33	0.11		6.3
15	47.65-49.10	1.45	SS/CARB	10YR/4/2	0	0.33	10.31	6.88	3.43		5.0
16	49.10-51.65	2.55	SS	10YR7/1	0	0.06	1.88	1.34	0.53		5.7
17	51.65-52.45	.80	SS/CARB	10YR4/1	0	0.31	9.69	-6.89	16.58		4.4
18	52.45-53.35	.90	SS	10YR5/1	0	0.11	3.44	-4.59	8.02		4.7
19	53.35-58.00	4.65	SS	10YR7/1	0	0.10	3.13	-0.35	3.47		5.5
20	58.00-63.00	5.00	SS	10YR7/1	0	0.08	2.50	0.39	2.11		5.8
21	63.00-68.00	5.00	SS	10YR7/1	0	0.12	3.75	1.59	2.16		6.2
22	68.00-69.50	1.50	SS	10YR7/1	0	0.11	3.44	1.59	1.85		6.6
23	69.50-73.00	3.50	SS	10YR6/1	0	0.18	5.63	4.41	1.22		6.0
24	73.00-78.00	5.00	SS	10YR7/1	0	0.07	2.19	1.44	0.75		6.3
25	78.00-81.20	3.20	SS	10YR7/1	0	0.06	1.88	1.83	0.04		6.3
26	81.20-85.90	4.70	SS	10YR7/1	0	0.06	1.88	2.25	V.01	0.37	6.7
27	85.90-90.30	4.40	SS	10YR7/1	0	0.02	0.63	11.78		11.16	6.9
			1.270	1800 60	S. P. KAL	688	SERVICE SERVICE		F. C. L. (1883).	1. 1. 1. 1. 1.	0.0
5.2				46			C. S. C.	10 To			

ment in conjunction with this data allow for better decision making when lining pits with clay or lime, constructing refuse cells, and the placement of materials during the reclamation process. We have been able to identify the "green sandstone" before it turns green and. more importantly, this allows us to handle this material in an environmentally sound manner.

The results of this program are very promising. To date, two valley fills have been completed with good water quality at the toes, thereby not requiring treatment. Three large valley fills are in various stages of completion, with resultant water quality meeting in-stream limits at their respective discharges, also without treatment.

Placement of this sandstone in appropriate places is a continuous strategy to maintain good quality water. If proper placement is not conducted, we constantly see the result during active mining. Large rain events produce pit water with high manganese content,

which must be treated before release.

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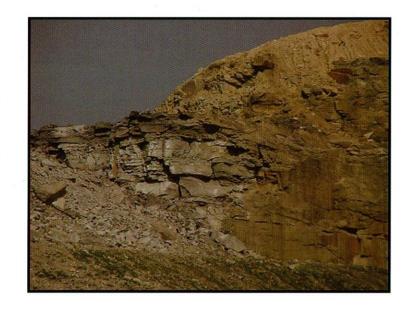
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The sequence of overburden at Fola Coal Company. The large sandstone unit contains ferrous iron, which turns a faint greenish color upon weathering. This unit requires the modified NP testing procedure to predict its drainage quality.

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Different colors on the sandstone rock unit shows a recently exposed and unweathered section on the left, which is clearly white in color. The weathered and greenish color on the right shows where weathering has caused the formation of acid in the sandstone.





This valley fill is one of the early fills where "green" sandstone was placed on the surface for riprap. As a result of incorrect knowledge of the material's acid-producing potential, a small amount of chemical treatment is needed before this water can be discharged.

Coal Calendar 2001-02

November

19-20 Clean Coal and Power Conference, Washington, D.C. Contact Faith Cline (202) 586-7920.

December

- 1 19th Annual Awards Banquet, American Mining Hall of Fame, Tucson, AZ. Contact Clare Roscoe, (520) 577-7519
- 6 Kanawha Valley Mining Institute Meeting, Holiday Inn, Charleston House, Charleston, WV. Reception begins at 6:30 p.m. Contact Jim Corsaro (304) 949-5630 or Lori Baisden (304) 595-9419.
- **12 WVCA Lobbyist meeting.** Contact patty Bruce (304) 346-5318.

January

- 9-11 29th Annual West Virginia Mining Symposium, Charleston House Holiday Inn, Charleston, WV. Contact Patty Bruce (304) 346-5318.
- 9 Business and Industry Council reception, Charleston, WV.
- WV Legislative session beings.
- **20** Mountain State Coal Classic Basketball Banquet, Raleigh County Armory, Beckley, WV. Contact Terry Miller (304) 252-8528.
- **21-26** Mountain State Coal Classic Basketball Tournament, Raleigh County Armory, Beckley, WV. Contact Terry Miller (304) 252-8528.

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