WEST VIRGINIA MINE SAFETY AND HEALTH ADMINISTRATION IN THE MATTER OF: THE INVESTIGATION OF THE APRIL 5, 2010 MINE EXPLOSION AT UPPER BIG BRANCH MINE. The interview of RAYMOND C. BRAINARD, taken upon oral examination, before Elizabeth A. Howd, Registered Diplomate Reporter, Certified Realtime Reporter, and Notary Public in and for the State of West Virginia, Tuesday, October 26, 2010, at 9:51 a.m., at the Mine Academy, 1301 Airport Road, Beaver, West Virginia. JOHNNY JACKSON & ASSOCIATES, INC. 606 Virginia Street, East Charleston, WV 25301 (304) 346-8340

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6	
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1	MR. KOERBER: My name is Barry Koerber.
2	I'm an Assistant Attorney General, and I'm
3	assigned to represent the West Virginia Office of
4	Miners' Health, Safety and Training.
5	Today is October 26, 2010. We are here to
6	conduct an interview pertaining to the mine
7	explosion that occurred at the Upper Big Branch
8	mine on April 5th, 2010.
9	On behalf of the Office of Miners' Health,
10	Safety and Training, I would ask those people
11	representing that agency to identify themselves at
12	this time.
13	MR. FARLEY: Terry Farley.
14	MR. O'BRIEN: John O'Brien.
15	MR. KOERBER: And we also have two other
16	entities in the room participating in the
17	interview, and I would ask that they identify
18	themselves at this time.
19	MR. STOLTZ: Richard Stoltz with MSHA.
20	MS. HAMPTON: Pollyanna Hampton. I'm an
21	attorney with the Office of the Solicitor with the
22	Federal Department of Labor.
23	MR. McGINLEY: I'm Patrick McGinley with
24	the Governor's Independent Investigation Panel.

1	MR. KOERBER: We have three people in the
2	back. I would ask that they identify themselves.
3	MR. WATKINS: Tim Watkins with MSHA.
4	MR. PAGE: Norman Page, MSHA.
5	MR. GODSEY: John Godsey, MSHA.
6	MR. KOERBER: We have a court reporter
7	here today. She will be taking down everything
8	that is said.
9	You need to speak and not nod your head.
10	You need to answer affirmatively or negatively
11	like, "yes," "no."
12	You need to speak loud.
13	You need to wait until the question has
14	been asked before you begin to answer, and I will
15	ask the interviewers to wait until you answer the
16	question before they ask the next question so that
17	nobody is talking over one another, because that
18	makes it extremely confusing for the court
19	reporter.
20	If there is something that she does not
21	understand, she will jump in and ask you to please
22	restate that. So just do so when she asks. Okay?
23	If at any time you need a break for any
24	reason whatsoever, let me know. We'll take a

1 break.

We would request that you not discuss your testimony after you leave this building here today with anybody other than your attorney,

5 Mr. McCuskey.

The court reporter will transcribe this 6 interview by Friday. So anytime, beginning Monday, 7 that you desire to read the transcript and make any 8 corrections that you deem warranted on the errata 9 10 sheet that will be appended to the original transcript, you need to call Johnny Jackson & 11 Associates -- your attorney has their phone 12 number -- to schedule a time Monday through Friday, 13 whatever their business hours are, and you can go 14 in with your attorney or by yourself, whatever you 15 so choose, and read the transcript, make any 16 corrections you deem necessary on the errata sheet. 17

However, you will not be allowed to take a
copy home with you. So you'll have to do it at
Johnny Jackson & Associates. It is located in
Charleston, West Virginia.

I believe Ms. Hampton has a letter that she would like to identify for the record, so I ask that she do that now.

MS. HAMPTON: Yes, sir. I handed you a 1 letter before we started the interview. Did you 2 receive that letter? 3 THE WITNESS: Yes. 4 MS. HAMPTON: And you reviewed it? 5 THE WITNESS: Yes, I did. 6 7 MS. HAMPTON: Do you have any questions for me on that letter? 8 THE WITNESS: None whatsoever. 9 10 MS. HAMPTON: Okay. I just would like to point out that contact information for Norm Page --11 he is the team leader for the MSHA investigation 12 team -- is contained in that letter. 13 So if after the time when you leave here 14 today, if there are other thing that you would like 15 16 to share with the teams, you may contact or have your attorney contact him and let us know if there 17 are additional things that you would like to let us 18 19 know. Okay. MR. KOERBER: Would you please swear in 20 the witness. 21 22 RAYMOND C. BRAINARD, WITNESS, SWORN Sir, would you please state MR. KOERBER: 23 your full name for the record and spell your last 24

1 name. THE WITNESS: My name is Raymond C. 2 Brainard, B-r-a-i-n-a-r-d. 3 MR. KOERBER: And would you please give me 4 your home address and your telephone number. 5 THE WITNESS: My home address is 6 7 8 MR. KOERBER: Do you have an attorney with 9 10 you here today? THE WITNESS: Yes, I do. 11 MR. KOERBER: And would that attorney 12 please identify himself. 13 MR. McCUSKEY: Yes. John McCuskey, law 14 firm of Shuman, McCuskey & Slicer in Charleston, 15 West Virginia. 16 MR. KOERBER: Is Mr. Brainard your 17 client? 18 MR. McCUSKEY: He is. 19 MR. KOERBER: We also have another lawyer 20 sitting at the table. I would ask that he identify 21 22 himself, his firm, and the client he represents MR. ALLEN: I represent the company. I'm 23 Robert B. Allen with the firm of Allen, Guthrie & 24

Thomas. 1 MR. KOERBER: Mr. Brainard, are you 2 appearing here today as a result of receiving a 3 subpoena? 4 THE WITNESS: Yes, I am. 5 I'm going to hand you a copy MR. KOERBER: 6 7 of that subpoena and ask whether or not you recall seeing that. 8 THE WITNESS: Yes, I have. 9 MR. KOERBER: I would like this to be 10 marked as Exhibit 1, please. 11 (Exhibit No. 1 marked for 12 identification.) 13 MR. KOERBER: I note for the record that 14 that subpoena compels your attendance to an 15 interview on October 19th and today is October 26. 16 Based on conversations I had with your 17 attorney, we moved that interview from that date to 18 Is your recollection as well? 19 todav. THE WITNESS: Yes, it is. I appreciate 20 that. 21 22 MR. KOERBER: Sir, on behalf of the Office of Miners' Health, Safety and Training, I would 23 also like to provide to you a memorandum that 24

1	contains the address to the West Virginia Board of
2	Appeals. They are the administrative tribunal that
3	hears discrimination complaints, discrimination
4	being anything anyone might do to you as a result
5	of participating in this interview.
6	I'm going to give this to you. I'm also
7	giving you the business card of Mr. Terry Farley,
8	as well as Mr. Bill Tucker. Mr. Farley is the lead
9	accident interviewer. Mr. Tucker is the lead
10	underground investigator.
11	If there would be anything that would come
12	to your mind later on that you would like to
13	provide to the State, either of these two people
14	would be a contact person for you.
15	I would also remind you that if a
16	discriminatory event occurred to you as a result of
17	participating in this interview, you must file your
18	claim with the Board of Appeals within 30 days of
19	the date the event occurs. Okay? So let me give
20	you this.
21	At this point in time, I would turn the
22	interview over to Mr. Farley to begin the
23	questions.
24	

	RAIMOND C. BRAINARD EXAM BI MR. FARLEI
1	EXAMINATION
2	BY MR. FARLEY:
3	Q. Good morning, Mr. Brainard. Thank you
4	A. Good morning.
5	Q. Thank you for coming.
6	Let's start with a little background
7	information. Are you currently employed?
8	A. Yes, I am.
9	Q. Where are you currently employed?
10	A. At Route 3 Engineering, Performance Coal,
11	on Route 3.
12	Q. Route 3 Engineering, is that a subsidiary
13	of Performance Coal or a Massey
14	A. I guess I would characterize it as the
15	engineering group that performs the engineering
16	functions for Marfork Coal Company, Elk Run Coal
17	Company, and Performance Coal Company.
18	Q. Okay. How long have you worked in the
19	coal mining industry?
20	A. Since 1971. What is it? Is it 39 years?
21	Q. According to my math, yes.
22	A. Yeah.
23	Q. Okay. Are you a Registered Professional
24	Engineer?

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1	A. Yes, I am. I have been since 1978.
2	Q. Okay. I assume that means you also have
3	some type of engineering degree. Is that correct?
4	A. Yes. From Michigan Tech in 1971, a BS in
5	mining engineering.
6	Q. Okay. All right. Thank you.
7	How long have you worked for the Massey
8	companies?
9	A. Four and a half years.
10	Q. What Massey companies, in addition to
11	Route 3 Engineering and its area of responsibility,
12	have you worked for?
13	A. Actually, all of them. All of Massey's
14	operating companies, because I do tax work.
15	Q. I'm sorry?
16	A. Tax work.
17	Q. Tax work?
18	A. Yeah.
19	Q. As in income tax type work?
20	A. No. As in property tax.
21	Q. Okay. All right. So how would you define
22	your position with Route 3 Engineering, as in your
23	title? What are you called there?
24	A. I am called a special projects engineer.

1	Q. Now, as of April 5th of this year, who did
2	you report to at Route 3 Engineering?
3	A. I had I guess I would characterize
4	joint Paul McCombs. I would say Paul McCombs.
5	Q. Okay. Now, when you say you said
6	joint. Was there some other person?
7	A. Well, there were some joint
8	responsibilities between the two of us, but I think
9	that you could characterize I was reporting to him.
10	Q. And what was Mr. McCombs' position and
11	title?
12	A. He was chief engineer.
13	Q. For Route 3 Engineering?
14	A. Yes.
15	Q. And who did Mr. McCombs report to?
16	A. I believe the director of engineering, Ken
17	Brown.
18	Q. Okay. Now, Mr. Brown, was he with Route 3
19	Engineering or Massey?
20	A. No. He's with Massey Coal Services.
21	Q. Now, would Mr. Brown have worked out of
22	their office in Lincoln County?
23	A. Yes, sir. Well, I think that's in Boone
24	County, but

	RAYMOND C. BRAINARD EXAM BY MR. FARLEY 15
1	Q. Or maybe Boone County. Excuse me.
2	A. Yeah.
3	Q. The facility along Route 119; is that
4	correct?
5	A. Yes.
6	Q. Now, did your if you would, in your own
7	words, explain your area of responsibility. What
8	was your function with Route 3 Engineering?
9	A. Okay. When I first started, I can tell
10	you there was another engineer. His name was Mike
11	Milam. Mike explained to me that I was responsible
12	for some of the engineering. The mines were kind
13	of divided between us. I think I had Marfork.
14	My responsibility also included mentoring
15	the new the young engineers and providing them
16	with my insight or my experience in developing
17	them.
18	And then, like I said, the property
19	taxes. In West Virginia there's a tax on it's
20	active coal reserves, mining that's taking place,
21	you know, concurrently with paying the taxes. That
22	started out just in that division or in those three
23	divisions, then expanded to the whole company.
24	I also do the severance tax, the low-seam

1	severance tax, and just recently started the
2	business personal property tax.
3	Q. Okay. Is that it?
4	A. Basically.
5	Q. Okay. You have indicated that you served
6	as a mentor for younger engineers. What younger
7	engineers did you actually mentor?
8	A. Some of them are gone.
9	Q. Let's say from the time frame of 2009 and
10	2010. Let's limit it to that.
11	A. Keith Lilly. Matt Walker. Eric Lilly. I
12	can't think of any others.
13	Q. Now, how many people reported directly to
14	you?
15	A. I never thought of that. I don't think
16	any. I mean, I have got a girl that works on
17	taxes. She does. The CAD operators, you know.
18	Yeah.
19	Q. Now, did your area of responsibility,
20	aside from the tax work, include the Upper Big
21	Branch mine in any way?
22	A. Yes. I certified the maps.
23	Q. Now, what beyond that did you do in your
24	service for the Upper Big Branch mine?

1	A. I guess I was in on certain discussions,
2	changes in the plans and things like that.
3	Q. Did you ever were you ever actually
4	employed, physically employed, at the UBB mine?
5	A. No, sir.
6	Q. Did you ever travel underground at the
7	Upper Big Branch mine?
8	A. Yes. I had been associated with the
9	property since 1975, so various times I had been.
10	I worked for someone else, but it happened to be
11	the land company that owned the property that Big
12	Branch was located on.
13	Q. Now, when you traveled occasionally
14	traveled underground, was this once a year, 10
15	times a year? Is there some way to quantify it?
16	A. Once every couple years probably.
17	Q. Okay. That gives me a sense of it.
18	Now, my question is, how many mines or
19	facilities were included in your area of
20	responsibility?
21	Now, did I understand you to say that your
22	responsibility included the entire Massey Energy
23	mining system with tax responsibility?
24	A. Yes, sir. Yeah, with respect to the

1	taxes.
2	Q. Did that take you on the road some out of
3	your office
4	A. Of course.
5	Q at Route 3 Engineering?
6	A. Yes, it did.
7	Q. How frequently were you away from the
8	Route 3 Engineering facility?
9	A. I'm gone a few days a week, but normally
10	I'll come in in the morning and do my traveling in
11	the afternoon. Okay. And I tell them where I'm
12	going.
13	Q. Now, can you give me some sense of how
14	often you traveled during a typical week prior to
15	April 5th? About how many days were you out of the
16	office?
17	A. Two.
18	Q. Now, during your time with the Route 3
19	Engineering group, do you have knowledge of an
20	event that occurred in July of 2003?
21	We have documented evidence to confirm
22	that an inundation or outburst of methane or
23	natural gas occurred on the headgate 16 longwall
24	panel in July of 2003 at the Upper Big Branch

1	mine. It was determined that the gas came from the
2	mine floor.
3	Do you have any knowledge of that event?
4	A. No, no direct knowledge.
5	Q. Do you recall, were you with the company
6	when it happened?
7	A. No, sir.
8	Q. That's prior to your arrival with Route 3
9	Engineering?
10	A. Say that again.
11	Q. Prior to your arrival with Route 3
12	Engineering?
13	A. Yes, it was.
14	Q. There was a similar event in February 2004
15	on the headgate 17 longwall panel at Upper Big
16	Branch. Do you have any knowledge of that event?
17	A. No, sir, no direct knowledge.
18	Q. Again, would that event have occurred
19	before your arrival at Route 3?
20	A. Yes, it was.
21	Q. Did anyone ever discuss those events with
22	you, meaning your superiors?
23	A. It wouldn't have been I wouldn't
24	characterize it as a discussion. It had been

1	mentioned.
2	Q. Now, when it was mentioned to you, did
3	those who mentioned it describe the nature of the
4	events?
5	A. Not really.
6	Q. Now, what was your understanding of the
7	events based on these conversations?
8	A. That the floor cracked and they had an
9	inundation of gas at a couple locations.
10	Q. Do you know if based on your
11	conversation, do you know if either event brought
12	about any changes in the UBB longwall ventilation
13	system?
14	
15	Q. Now, were you how often or were you
16	involved in any of the mine planning at UBB?
17	A. I would say that maybe long-term planning,
18	the 10- and 20-year plans; but year to year, no, I
19	wasn't.
20	Q. So now more specifically, did you sit in
21	on any meetings to discuss ventilation plans, roof
22	control plans, or any planning meetings regarding
23	the return of the longwall to Upper Big Branch in
24	2009?

1	A. I would say that we were all involved in
2	the return of the longwall. Everybody was.
3	Q. When you say "all" or "everybody," can you
4	define that for me?
5	A. Basically, the engineering office, the CAD
6	operators, the engineers, the surveyors.
7	Q. Common knowledge among the entire group?
8	A. Yeah, truly.
9	Q. Now, was there an engineer who was
10	specific engineer or engineers who were
11	specifically assigned to the UBB mine, that had it
12	as an area of responsibility?
13	A. Yes. It was Eric Lilly. I think for
14	probably more than a year that he had been moved up
15	to the mine. So yeah.
16	Q. Do you recall when he would have been
17	moved to the mine location?
18	A. When?
19	Q. Yes.
20	A. It might have occurred while I was absent
21	last summer. I had
22	was gone for three months. I think when I
23	went back Eric had moved up during that period of
24	time.

1	Q. Okay. Sorry to hear about your illness.
2	Do you know when the planning started to
3	return the longwall to Upper Big Branch?
4	A. Say that one more time.
5	Q. Do you know when planning started? When
6	was the decision made to return the longwall to the
7	Upper Big Branch mine?
8	A. I'm going to say sometime during 2007, but
9	that would be the as narrow as I could get it.
10	Q. Okay. Now
11	A. The reason I say that is for tax purposes,
12	you know, you have to include coal reserves. And I
13	took those out and then I put them back in in, I
14	think, 2007. So that would be the only way that I
15	could relate them returning the longwall.
16	Q. Well, let me back up a little bit then.
17	Do you recall when the longwall left or
18	moved from the Upper Big Branch mine and moved to
19	Logan's Fork?
20	A. Yes, I do. I remember that distinctly
21	because they had to put it down some of the
22	equipment down the shaft.
23	Q. Do you recall when? Can you give me that
24	date or your estimate approximately?

1	A. That was late 2006, I believe.
2	Q. Okay. Do you know who the foremen's
3	president might have been at that time when the
4	longwall left, 2006?
5	A. I believe it was Craig Boggs.
6	Q. Now, you indicated that you think that the
7	decision to return the longwall to Upper Big Branch
8	occurred in 2007.
9	Now, who do you recall as being the
10	Performance president at that time?
11	A. I don't know if it was Craig Boggs or
12	Chris Blanchard.
13	Q. But do you recall when Mr. Blanchard
14	assumed the presidency for
15	A. I know he did, but I couldn't give you a
16	time period.
17	Q. Would it have been prior to 2009, you
18	think?
19	A. Yes.
20	Q. Now, when a decision was made to return
21	the longwall to Upper Big Branch mine, who took the
22	lead in those discussions? Who was the driving
23	force behind the process?
24	A. I couldn't answer that. I do not know.

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1	Q. You have clearly told us that your primary
2	responsibility was tax matters, but I want to ask a
3	few questions about matters at the mine in the
4	event that you may know.
5	A. Okay.
6	Q. Now, during the planning stages for the $$
7	well, here it is for the longwall that was in
8	operation at UBB on April 5th, during the planning
9	stages for that longwall, do you know if an
10	analysis of retreat mining pillar stability,
11	commonly referred to as ARMPS, was done to
12	determine proper headgate and tailgate pillar sizes
13	during the planning stages?
14	A. I saw some letters, but I believe they
15	were from prior, the longwall prior to that date.
16	Q. Now, the longwall prior to that date, if I
17	remember correctly, we determined that it left
18	there sometime in 2006. Is that correct?
19	A. Yeah.
20	Q. So this stability analysis was done for
21	the prior longwall? Is that what you saw?
22	A. Yes. I think the letters were dated
23	2005. And I do remember them doing some drilling
24	to facilitate a report in the new areas.

1	Q. Now, do you know if the presence of
2	over-mining was factored into those pillar
3	stability analyses?
4	A. No, I do not know.
5	MR. McCUSKEY: Terry, may I ask for
6	clarification? Are you talking about the 2005
7	pillar analysis?
8	MR. FARLEY: Yes.
9	THE WITNESS: I don't know that.
10	BY MR. FARLEY:
11	Q. Now, was any such analysis, other than the
12	one you're aware of for 2005, done after 2005 which
13	you're aware of?
14	A. No, I'm not aware of anything. Like I
15	say, I believe they did some drilling in connection
16	with doing that, but I don't know.
17	Q. Do you recall any discussions regarding
18	the pillar size and the projected longwall headgate
19	entries?
20	A. No.
21	Q. Now, we understand that the UBB longwall
22	in operation at the time of the event on April 5th
23	went online or started up sometime in early
24	December or early September 2009. Is that

1	A. Yes, that's correct.
2	Q the way you remember it?
3	Okay. Now, based on review of some
4	violations that were cited, we understand that the
5	longwall headgate began to deteriorate due to the
6	presence of water and ground control problems
7	during the late fall, early winter, November,
8	December 2009.
9	Do you recall anything about that?
10	A. Only that it was it was a matter that
11	was discussed. I don't know of what outcome, what
12	became of it.
13	Q. Were you aware of water accumulation
14	problems in the UBB longwall headgate entries at
15	that time?
16	A. That I cannot say. I don't remember.
17	Q. We have heard considerable testimony from
18	a number of people during this investigation that
19	there were ventilation problems on the headgate 22
20	section in the Upper Big Branch mine.
21	Prior to the April 5th explosion, did
22	anyone ever approach you and tell you that that
23	section had particular ventilation problems? Did
24	you ever hear that discussed?

1	A. Not that was never discussed as far as
2	somebody saying there was problems there.
2	
3	Q. Now, when you say that it was never
4	discussed, do you mean it was never discussed with
5	you personally?
6	A. Exactly. Exactly.
7	Q. But it is possible that others may
8	A. Sure.
9	Q have discussed it?
10	A. Yes, it is.
11	Q. No miners ever approached you with a
12	complaint?
13	A. No.
14	MR. KOERBER: You need to answer yes or
15	no, sir.
16	MR. McCUSKEY: I think he did, but it was
17	so faint that maybe the court reporter didn't pick
18	it up.
19	THE COURT REPORTER: I got it. He said,
20	"No."
21	Q. Do you know if the would it be your
22	understanding that the deterioration of the UBB
23	longwall headgate panel beginning in late fall of
24	2009 led to the decision to develop a new tailgate

1	section on this 22 tailgate?
2	A. I could assume that, but I don't I have
3	no direct knowledge of that.
4	Q. Were you party to any discussions in
5	planning that?
6	A. I don't believe so.
7	Q. Now, based on your understanding of the
8	events resulting from the deterioration of the UBB
9	longwall headgate entries and the obvious need to
10	develop the 22 tailgate section, did that in your
11	mind create a situation where the longwall panel
12	would have no immediate place to go once it
13	completed mining of the existing panel?
14	A. No.
15	Q. Around that time in November or December,
16	did you notice any change in the management
17	philosophy for the UBB mine or for the Route 3
18	Engineering? Was there a renewed sense of urgency
19	because of the longwall problems? Was there a
20	shift in priorities?
21	A. No, not that I remember.
22	Q. As of April 5th of this year, did you have
23	any knowledge of pumps located throughout the UBB
24	mine, location of pumps?

1	A. Not the exact location, but I do remember
2	the discussion of the pumps that were down there.
3	Q. What's that discussion that you recall?
4	A. Normally, I think that when they were
5	having some difficulty with the pumps or something,
6	that's when they broached that subject.
7	Q. Now, did you have knowledge of pumps
8	located near the Bandytown fan?
9	A. No, but I know there's a discharge point
10	there that near the fan and a pump.
11	Q. Do you know if there were pumps in the
12	area of the Bandytown fan inby the longwall as of
13	April 5th?
14	A. I believe that, yeah, there's one on the
15	map. I mean, if you look at the map everything is
16	dipping that way, so I guess you would assume
17	there's some water down there.
18	Q. Okay. Were you a party to any discussions
19	as to how to manage that water in that area at any
20	time?
21	A. No.
22	Q. Did you become aware at any time of any
23	instances where water in that area of the mine may
24	have roofed, having an impact on ventilation?

1	A. I remember that subject, but I do not
2	believe it was at UBB that my memory that that
3	occurred there. It was someplace else.
4	Q. Well, we'll try to limit our discussions
5	to this accident.
6	A. Yeah.
7	Q. During your time with Route 3 Engineering,
8	are you aware were you aware of any ventilation
9	surveys or simulations conducted for the UBB mine?
10	A. No. No, I am not.
11	Q. Is it possible someone may have been
12	such things may have been conducted without your
13	knowledge?
14	A. Oh, certainly.
15	Q. Under whose purview would that have
16	A. I don't know.
17	Q. Who would have handled that?
18	A. I'm going to guess Bill Ross, but I don't
19	know that.
20	Q. What was Mr. Ross's position, if you know?
21	A. I thought he was like the ventilation guy,
22	engineer or something.
23	Q. Now, the ventilation guy or engineer. Was
24	he with Performance Coal or Massey Coal Services?

1	A. Massey Coal Services, but he's located at
2	Marfork.
3	Q. Okay. Meaning his daily place, his place
4	where he reports on a daily basis, is at Marfork,
5	he maintains an office there?
6	A. I believe that's true, because that's
7	where his phone number is.
8	Q. Okay. Did you happen to work at
9	Performance or UBB or Route 3 Engineering on
10	Sunday, April 4th? That would have been Easter
11	Sunday.
12	A. I don't remember.
13	Q. Would you typically that was a holiday
14	weekend, obviously.
15	A. Yeah.
16	Q. Did you typically work on weekends?
17	A. Yeah, I did.
18	Q. How often?
19	A. There's a few months when I worked just
20	about every one, but
21	Q. Did it typically include did the
22	weekend work include Sundays typically?
23	A. Yeah. Yeah, it did.
24	Q. But you don't recall if you worked

1	A. No, I don't. When I had to work on the
2	weekends, it really was for tax purposes.
3	Q. Okay. Do you know if anybody else from
4	Route 3 Engineering may have worked during the
5	weekend of April 3rd or April 4th?
6	A. No. I have no knowledge of all I know
7	is that Paul McCombs was a frequent he was a
8	hard worker and he was there a lot of Saturdays.
9	Q. You indicated earlier that you had served
10	as a mentor for Keith Lilly, Matt Walker, Eric
11	Lilly. Are all those individuals still employed
12	with Route 3 Engineering?
13	A. No, they aren't.
14	Q. Who among them is no longer employed?
15	A. Eric is no longer employed.
16	Q. Do you recall when Eric may have departed?
17	A. It was a month or so after April 5th.
18	Q. Do you recall the do you know the
19	reason for his departure?
20	A. I was never told why.
21	Q. Do you know the manner of his departure?
22	Did he resign? Was he
23	A. No.
24	Q terminated?

1	A. I was not privy to any of that
2	information.
3	Q. If we're correct, Mr. Lilly would have
4	been specifically assigned to the Upper Big Branch
5	mine. Is that correct?
6	A. Yes.
7	Q. Were you working anywhere on Massey
8	property on Monday, April 5th, 2010?
9	A. I was at Performance, and that was one of
10	those days I know that I traveled someplace. I
11	can't tell you where. Because I was not there when
12	everything occurred.
13	Q. Do you recall where you were?
14	A. All I know is I heard about it when I got
15	home.
16	Q. And can you give me an approximate time as
17	to when you got home that day?
18	A. Oh, 5:00, 6:00.
19	Q. And you live in Winfield?
20	A. Yes.
21	Q. Now, how did you learn of the event when
22	you got home?
23	A. I think the lady that worked for me called
24	me and said, "Have you looked at" "Have you seen

1	what happened on the news?" And I hadn't turned on
2	the TV, so I hadn't seen that. But I think she
3	told me.
4	Q. You think it was approximately 5:30? Did
5	you say that?
6	A. Yeah.
7	Q. 5:30 p.m., that is, of course?
8	A. Yes, that evening.
9	Q. And who is the lady who called you?
10	A. Deanna Beck. She's my property
11	technician.
12	Q. Did she maintain an office at Route 3
13	Engineering?
14	A. Yes.
15	Q. What was her description of the events?
16	A. She just all she knew was there was an
17	explosion. That was the only thing that she could
18	tell me.
19	Q. What did you do then? Did you go to the
20	mine? Did you go to Route 3 Engineering?
21	A. I went to the mine the next day.
22	Q. Okay. What was your what were your
23	duties the following day? Were you involved in any
24	rescue/recovery work?

1	A. No, sir. I guess I helped produce some of
2	the maps that they were needing.
3	Q. So you arrived at Route 3 Engineering on
4	April 6th?
5	A. Yeah.
6	Q. About your normal time or when?
7	A. Yeah. Yeah. It was 6:00 or something,
8	yeah, in the morning.
9	Q. A.m.?
10	A. Yeah.
11	Q. During the day of April 6 at Route 3
12	Engineering, did you make any written or recorded
13	notes regarding the explosion?
14	A. None. None whatsoever.
15	Q. Do you know if there has been an in-house
16	review or investigation by Performance Coal or
17	Massey Coal Services concerning the April 5th,
18	2010, UBB explosion?
19	A. Would you repeat that question, please?
20	Q. Sure. Do you know, has there been an
21	in-house review or an investigation of the UBB
22	explosion conducted by Performance Coal or Massey
23	Coal Services?
24	A. I believe there they have got someone

1	in charge of an investigation, Charlie Bearse. And
2	they took a few of our CAD operators up there. So
3	I believe they're performing some type of
4	investigation.
5	Q. Now, have you seen any written report or
6	document detailing findings or conclusions of that
7	investigation?
8	A. No, I have not.
9	Q. On arrival at Route 3 Engineering on
10	April 5th, or since then, have you learned of any
11	calls made from underground at UBB to the surface
12	on April 5th that might have expressed concerns
13	regarding ventilation, methane, or any other
14	problem?
15	A. No, I have not.
16	Q. I think I might have asked this question.
17	I think I asked you earlier if any ventilation
18	surveys were conducted at the UBB mine by Route 3
19	Engineering. Did I?
20	A. I don't specifically remember Route 3
21	Engineering, but yeah, you asked about ventilation
22	surveys.
23	Q. Were any such surveys conducted?
24	A. Not that I'm aware of.

1	Q. Now, are you aware of any arrangement or
2	agreement between Performance Coal or Massey Energy
3	with a professor with the University of Kentucky
4	regarding ventilation surveys?
5	A. No, I'm not.
6	Q. I think I may have asked this question.
7	Do you know if any computer simulations were ever
8	run on the UBB mine ventilation system?
9	A. I'm aware that one has been run now, but
10	at the time, no.
11	Q. Now, the simulation that has been run now,
12	did the simulation take into account the conditions
13	prior to April 5th of this year?
14	MR. ALLEN: Let me just, Terry, speak up.
15	To the extent that he has any knowledge as a result
16	of meetings and conversations of counsel and part
17	of the investigation team, we would object to this
18	being a privileged area. Okay?
19	MR. FARLEY: Okay.
20	MR. ALLEN: I mean, unless he's got the
21	knowledge you can ask him if he's got knowledge
22	totally independent, but if he
23	BY MR. FARLEY:
24	Q. Do you have knowledge of a ventilation

1	of a excuse me. Let me start that again.
2	Do you have personal knowledge of any
3	computer simulation run on the UBB ventilation
4	system before or after the April 5th explosion?
5	A. Only what I have read in the press
6	releases.
7	Q. Okay.
8	A. Okay?
9	Q. All right. I can read the newspaper
10	myself.
11	MR. McCUSKEY: At your own peril.
12	Q. Your area of responsibility with Route 3
13	Engineering pretty much covered the entire Massey
14	Energy system. Okay. Is that correct?
15	A. Yes.
16	Q. Now, in terms of the typical day-to-day
17	mine engineering work, surveying, preparation of
18	maps, monthly take-ups, all those things, how many
19	mines or operations did Route 3 Engineering
20	actually serve as of April 5th of this year, if you
21	know?
22	A. Okay. Their responsibility there's no
23	surface mining that's done by Route 3. I'm going
24	to say that between 12 and 14 mines over a period

1	of time. Some come, some go, but I think probably
2	14. About 19 sections.
3	Q. There's something I left out. At the time
4	the UBB longwall started up in September of 2009,
5	do you know if any supplemental support was
6	installed or utilized in the longwall headgate
7	entries in advance of mining as the longwall
8	progressed?
9	A. I do not know, no. I don't. I do
10	remember some discussions about some cable bolts or
11	something.
12	Q. Now, who from the Route 3 Engineering
13	group might have knowledge of that, if anyone?
14	A. Matt Walker. Paul McCombs.
15	Q. What about Eric Lilly?
16	A. Oh, yes. I'm sorry. Yes. But I don't
17	consider him because he's not an employee anymore.
18	MS. HAMPTON: If we could just take a
19	two-minute break.
20	(Break.)
21	EXAMINATION
22	BY MR. STOLTZ:
23	Q. Mr. Brainard.
24	A. Yes, sir.

1	Q. I guess when was the last time you were
2	underground at the Upper Big Branch mine?
3	A. Oh, gosh. It's probably been four years
4	or more.
5	Q. Four years or more.
6	A. Certainly not there.
7	Q. And you mentioned that in '97 that there
8	was discussions of bringing the longwall back to
9	Upper Big Branch mine?
10	A. 2007.
11	Q. Sorry. 2007. Did you do any engineering
12	work for that process?
13	A. No, sir. No, sir.
14	Q. You mentioned that you do tax work and
15	that tax work would consist of do you do
16	projections for that, any type of projections,
17	five-year?
18	A. Just the year's worth. You put a year's
19	worth of projections on the tax map, but nobody
20	ever checks it. Okay.
21	Q. The projections then that you see on this
22	mine map and the set up of the longwall, was that
23	similar to your projections on the tax maps of
24	2007, 2008, and 2009, or has it varied?

1	A. No. That's just about what's on there. I
2	mean, basically, what I do is I take their long-
3	term projections and just cut them off and only
4	show a year at a time. Yeah.
5	Q. So those long-term projections then that
6	you recall, they're similar to what you see here?
7	A. Yes, they are.
8	Q. You mentioned that you mentored several of
9	the younger engineers?
10	A. Yeah.
11	Q. Mr both Mr. Lillys and Mr. Walker.
12	How did that work? Did you have daily interaction
13	with them?
14	A. First of all, I worked with them enough so
15	I could feel comfortable with what their work
16	product was. I mean, I have to do that. I was,
17	you know I was basically certifying their work.
18	I would say that a lot of it was them
19	asking questions.
20	There were some other engineers there. I
21	mean, I remember Mark Morris, he was a young
22	engineer. He left. You know, George Levo was
23	there. He died. But it really got down to a
24	fairly tight group over a period of four years or

1	something.
2	Q. Terry said that we're been made aware
3	of or had numerous reports of ventilation problems
4	at Upper Big Branch.
5	How would that process work? I mean,
6	would mine management make Engineering Group 3
7	aware that they're having ventilation problems and
8	you-all do something, or does the engineers do
9	something on their own?
10	A. They would be made aware of it by the
11	people at the mine. I don't recall that there were
12	a lot of occasions when the engineers made the
13	corrections. A lot of it was made by the mine
14	personnel.
15	Q. So there was no engineering work, you're
16	saying, per se. It was all done
17	A. Not all of it. I'm saying that a lot of
18	it was done at the mine.
19	Q. At the mine?
20	A. Yeah. I mean, some of it was no more than
21	moving the regulator or something or, you know, try
22	it and see if it worked.
23	Q. Okay. How about in the same context then
24	of roof support, ground control? I mean, with

1	ground control issues, would mine management notify
2	Route 3 Engineering, or how would that process
3	work?
4	A. If it necessitated something from the
5	engineers, a change in the mine plan, change in
6	size of the pillars or something, yeah, they would
7	discuss that with the engineering group.
8	Q. Okay. Then the engineering group would
9	then do ARMPS or ALPS or some sort of program
10	A. Right.
11	Q to try to change?
12	A. Yeah. I don't recall a lot of problems
13	there.
14	Q. You mentioned that you would review
15	Mr. Walker's and both Mr. Lillys' work during this
16	mentoring program.
17	A. Yeah.
18	Q. Okay. Naturally, young engineers, they
19	gravitate to some are good at ventilation, some
19 20	gravitate to some are good at ventilation, some are good in roof control.
20	are good in roof control.
20 21	are good in roof control. I mean, if you truly had a ground control
20 21 22	are good in roof control. I mean, if you truly had a ground control problem or a ventilation problem, who would be

1	A. Paul McCombs.
2	Q. Paul McCombs?
3	A. Yeah. Well, Mike Milam when he was there,
4	but he was only there for a short time.
5	Q. You mentioned that you were responsible
6	for certifying mine maps?
7	A. Yes, sir.
8	Q. Did you ever certify a mine map at Upper
9	Big Branch?
10	A. Yes, sir.
11	Q. Recently?
12	A. I do so many that but, yes, I'm I
13	might have certified the one in January, you know.
14	I don't You have got your progress maps twice a
15	year, then your annual ventilation map. So
16	depending on the date when they were due, I might
17	have certified those maps.
18	Q. And you mentioned the last time you were
19	in at Upper Big Branch underground was about four
20	years ago.
21	A. Four or five, yeah.
22	Q. When you are provided a mine map then to
23	be certified and you put your stamp on it, your PE
24	stamp, what are you certifying?

1	A. I am certifying
2	Q. What do you feel you're certifying?
3	A. I feel like I am certifying the conditions
4	as they exist at a moment in time. And that moment
5	being this is the way it was, because you're never
6	going to get this is the way it is.
7	Q. Well, are you certifying the accuracy?
8	A. Yes.
9	Q. At that point in time are you certifying
10	the accuracy of the mine map?
11	A. Yeah. I have got a checklist, a three-
12	page checklist, that I go over to certify that that
13	map meets those conditions on the checklist.
14	Q. And that would include entry widths,
15	pillar dimensions
16	A. Stoppings.
17	Q stoppings, regulators
18	A. Yes.
19	Q as shown on the if it's a
20	ventilation map?
21	A. Of course, it's getting you know,
22	carbon monoxide detectors and yeah, it's getting
23	to be rather lengthy.
24	Q. Yes.

1	A. Yeah.
2	Q. I guess if you're certifying the mine map
3	and its accuracy, do you have interaction with,
4	say, the survey group or spad crew that's actually
5	doing a survey?
6	A. I have interaction with the people that
7	work up the surveys.
8	Q. Do you review their work to
9	A. I have reviewed their work. Yes, I have.
10	Q. And do you look at the accuracy? Do you
11	review that they have done a closed loop survey?
12	A. Yes.
13	Q. How about the projections as shown on the
14	map? There's numerous projections that are
15	required to be shown.
16	A. Well, I look at them, but the way I look
17	at projections, they're subject to change all the
18	time. Okay.
19	Q. Then I guess get back to, when you're
20	given a ventilation map or 1200 map to certify, how
21	does that process work? Just walk us through it.
22	A. Well, okay. Basically, the engineer has
23	already looked at the map. Okay. So when I look
24	at the map, I am balancing the air. I'm making

1	sure that the air going in is approximately the air
2	going out, that it's it's measured at splits.
3	A ventilation map really is pretty easy to
4	certify, because, like I say, you've got a check,
5	in and out. And that would be a hard one to fool
6	with.
7	Q. Well, since you brought up a ventilation
8	map, but are you not certifying that the,
9	basically, the ventilation controls are accurate?
10	A. Yes.
11	Q. How does that interaction work? I mean,
12	you have already you told us that
13	A. Okay.
14	MR. McCUSKEY: Let him finish.
15	THE WITNESS: Yeah.
16	Q that the mine does a lot of the
17	ventilation changes on their own. So how does that
18	interaction between the mine and the engineering
19	office and from there to be put onto a mine map and
20	to you to be able to certify that it's accurate?
21	A. They're marking it on a map at the mine
22	office. Okay.
23	Q. Okay. The 1200 map you're referring to at
24	the mine office?

A. Yeah. So those changes should appear on
the map.
Q. Okay. Well, how does that get transferred
then from the 1200 map at the mine to the
engineers to your engineer AutoCAD map?
Basically that's what it is; it's an AutoCAD map.
A. They go up yeah. They go up there and
get the changes.
Q. When you say "they," I mean I'm just
looking for the process.
A. Yeah. The surveyors may get it. The
engineer may get it. It depends on when it's due.
Okay. They're all due at different times. So, you
know, there's no set time, period of time, that
they would retrieve the information on those maps.
Q. Yeah. But when you put your stamp on it
for that moment in time, you're stamping that it is
accurate; true?
A. Yes. And I'm depending on a number of
people to ensure that.
Q. Okay. Back to what I was asking. You're
relying then on the mine management to mark the
1200 map and verify that whatever ventilation
changes they have made is on the 1200 map, and then

1	an engineer or AutoCAD technician or somebody
2	transfers that information then onto another map
3	probably? Is it another map?
4	A. Yes.
5	Q. Which they bring back to the engineering
6	office and then goes into AutoCAD and performs or
7	makes those changes? Is that how the system works?
8	A. Yes, it is.
9	Q. Then once those changes are made by your
10	AutoCAD technician or somebody, or engineer, then
11	who reviews it to verify the accuracy, comparing
12	that map then, the AutoCAD map, to the map, the
13	1200 map, that's back hanging on the wall?
14	A. The engineer is looking at that.
15	Q. So he physically takes that map back to
16	the mine and reviews the information?
17	A. I
18	Q. I'm just asking.
19	A. Yeah, I don't know that. I don't know
20	that. I'm not going to I'm not going to say
21	anything because I don't know.
22	But the maps themselves, I mean, you're
23	checking you've got some checks that you can do
24	in the fire boss books and things like that. Okay.

1	Q. Is that part of the process also?
2	A. It is when something don't work. Okay.
3	Yeah. In fact, sometimes he has we have to send
4	somebody back, the engineer has to go back and take
5	measurements because it just doesn't make sense.
6	And that happens.
7	Q. Do you recall that happening, I mean,
8	where you've had to send an engineer back?
9	A. Yeah. Yeah. Specifically here, no, I
10	don't, but a lot of the mines have cut out a number
11	of places. Okay. And a lot of the inaccuracies
12	are because of those culverts they put in them and
13	trying to measure the air coming out of a number of
14	pipes.
15	Q. Do you recall and, again, this goes
16	back to '97.
17	A. 2007?
18	Q. Oh, yeah. Man, I'm sorry. I keep saying
19	that.
20	A. You're just 10 years off.
21	Q. That's a lot.
22	Do you recall in 2007 that if the
23	company, engineering company, engineering took into
24	account the mining in the upper seams in the

1	Powellton seam for this longwall?
2	A. No, I don't recall. I'm certain they did,
3	but I don't know that.
4	Q. Day in and day out, I guess, working in
5	the engineering office, did you have a was there
6	a lot of interaction between your AutoCAD
7	technicians, your surveyors, and your actual
8	engineers? I mean, how did that play out?
9	A. There is a lot of interaction between the
10	AutoCAD guys and the engineers. The surveyors,
11	there's like 12 or 15 of them. Most of that is
12	communicated through the guys that work up their
13	surveys, Keith and Bull. But it's not a big
14	office. There's a lot of talk.
15	Q. Then I guess back to surveying. I keep
16	coming back to surveying. You said Keith or Bull
17	would work up the surveys. Then you would have
18	one of the engineers probably would review would
19	they review the survey's work, surveyor's work to
20	verify?
21	A. Not unless there was a problem. It was
22	placed on the map.
23	Q. As long as it looked good then?
24	A. Right. As long as it appeared to be

1	accurate. Now, that doesn't always work, and they
	- · · · -
2	had to do there were some check surveys that had
3	to be run.
4	Q. I guess I have heard we have heard that
5	it was not a normal practice to have an engineer at
6	a mine, a Massey mine. Is that true?
7	A. No, it's not. In fact, in my experience,
8	Eric was the only one that I knew was located at
9	the mine.
10	Q. Why would you to me, it's something
11	abnormal then. Why would you think Mr. Eric Lilly
12	would be required to be at UBB then? Was it a
13	promotion or just a lateral, up to the mine? I'm
14	just curious.
15	A. I don't know the answer to that. I would
16	like to think that they thought that the longwall
17	deserved his total attention rather than being in
18	our office and getting diverted to other things.
19	So that would be my guess, that it was
20	important for them and they wanted somebody there.
21	Q. Was this longwall then the only longwall
22	that Massey had that Route 3 took care of, the only
23	mine with a longwall in it?
24	A. Logan's Fork was just about done.

1	Q. It was a longwall mine?
2	A. Yeah. Well, yeah. And it hadn't operated
3	very long. Yeah. We had the equipment. We just
4	didn't have a lot of places to put it.
5	Q. Did you have you said you were off for
6	three months and then came back. Did you have any
7	interaction with Mr. Lilly at the mine during that
8	time frame once you came back, prior to
9	A. He came down to the office. I mean, you
10	go past our office and up the hill to get to the
11	mine. So, basically, if he needed something, he
12	was at our office.
13	Q. Did he ever come to you specifically or
14	did you hear talk of any concerns from him
15	concerning ventilation or roof control in
16	particular?
17	A. No, I didn't.
18	Q. No other concerns?
19	A. No.
20	Q. Then if I heard you right then to Terry,
21	that you never did never have worked on any
22	plans associated with Upper Big Branch, roof
23	control, ground control?
24	A. No, I haven't.

1	MR. STOLTZ: For now, go ahead.
2	MR. KOERBER: Let's go off the record for
3	just one second.
4	(Off the record.)
5	EXAMINATION
6	BY MR. MCGINLEY:
7	Q. Mr. Brainard, when did you first come to
8	UBB? I missed that in the earlier testimony.
9	A. For Massey?
10	Q. Yes.
11	A. It was June 1st of 2006.
12	Q. Now, you said your history at the UBB went
13	way back.
14	A. Oh, yeah. Well, yeah.
15	Q. So roughly when have you worked at UBB,
16	whether it was for Massey or for others?
17	A. When did it start?
18	Q. Well, at what points maybe another way
19	to ask would be, from the time you started working
20	in the coal mines, when were you not at UBB? Is
21	that easier to answer?
22	A. I guess '71 till '75 I wasn't anywhere
23	near there. Now, you know, I don't know exactly
24	what year UBB started, but, you know, I

1	Q. Sure. So have you worked anywhere else
2	after '75 other than at the mine where UBB is
3	located?
4	A. I worked for that company for 22 years.
5	Q. That company was?
6	A. Berwind Land Company. I guess I didn't
7	have much to do with any of the mines in that area
8	from '96 to 2000-something. I mean, I was
9	consulting then, so I was everywhere.
10	Q. And who were you working for at that time?
11	A. Me.
12	Q. So how long were you a consultant?
13	A. Oh, seven years.
14	Q. 1990?
15	A. '6. No 1998 to 2005. For a couple years
16	I did absolutely nothing.
17	Q. Sounds good. 2005 you stopped working for
18	yourself as a consultant. What job did you take at
19	that point?
20	A. Well, it was going to work for Massey.
21	Q. But you didn't start with Massey until
22	A. Yeah.
23	Q 2006?
24	A. Yeah.

1	Q. And the first place you worked was there
2	in the office?
3	A. Right. Route 3 Engineering.
4	Q. Route 3 Engineering.
5	You said that was not a big office there
6	at Route 3 Engineering. There was a lot of talk.
7	You just said that. And
8	A. Say that again.
9	Q. You said it's not a big office, there's a
10	lot of talk.
11	A. Well, communication. I didn't mean talk,
12	but communication.
13	Q. That's what I took you
14	A. Okay.
15	Q. So there were just a few engineers, a few
16	AutoCAD operators, a couple of surveyors, all in
17	the same office; is that correct?
18	A. Yes.
19	Q. And while Eric Lilly you said was
20	assigned to UBB about a year before the explosion,
21	is that right, roughly
22	A. To my best recollection, yes.
23	Q. Who was assigned to UBB earlier than that?
24	A. George Levo had been the engineer at UBB.

1	Q. And he had
2	A. He had something, but the result being
3	he's dead, yeah.
4	Q. Right. And so when he died, did Lilly,
5	Eric Lilly, take over responsibility for UBB or
6	were there shared
7	A. Here's what I believe. I believe Mark
8	Morris was still there then. I believe Mark was
9	doing UBB for a little while and then he left and
10	then Eric came. That's what I believe.
11	Q. Mark Morris and George Levo, they weren't
12	located at UBB, were
13	A. No, they weren't. They were at Route 3
14	Engineering.
15	Q. You-all talked about your work because you
16	worked in close quarters; correct?
17	A. Yes. That's correct.
18	Q. Do you have something where you print out
19	maps in your office?
20	A. Yes.
21	Q. What do you call that?
22	A. The plotter.
23	Q. The plotter?
24	A. Yeah.

Not a printer? 1 Q. Α. No. 2 Never a printer? 3 Q. If you make little things, you call them Α. 4 5 prints. Have you discussed with Matt Walker at all 6 0. 7 his interview here by this panel? Α. No. 8 Did you know he was interviewed? 9 Q. I know Keith was. I guess maybe I don't 10 Α. know, Matt, whether he was or wasn't. 11 They just told me to watch out for you. 12 What did they say? What did they say? 13 Q. Nothing. Nothing. 14 Α. So Eric Lilly, after he was assigned and 15 Q. left your office and went closer to the mine --16 Α. Yes. 17 Q. -- you said he would come back to your 18 office when he needed to? 19 Probably almost on a daily basis. 20 Α. Well, that's what I was wondering about. 21 0. 22 Did he also have a workplace in your office as well as the other place? 23 Well, yeah. He did. I mean, it wasn't 24 Α.

1	much, but yeah, he that's normally where you
2	would see him.
3	Q. In your office, or that's where you would
4	see him when he came to your office was
5	A. When he came there, yeah.
6	Q. Was that an office that was set aside from
7	the others?
8	A. It was kind of in the hallway, so you
9	couldn't miss him.
10	Q. You said that you received your
11	Professional Engineer's licenses
12	A. License, yes.
13	Q license in 1978?
14	A. Yes.
15	Q. To what extent do you use that license in
16	working at UBB? I mean, is there any significance
17	of that license in your work that you have done at
18	UBB since 2006?
19	A. I guess I probably used it more there than
20	anywhere.
21	Q. And for what purpose do you use it?
22	A. Well, the taxes. Taxes require the maps
23	be certified too. The severance taxes require the
24	maps be certified. And then MSHA and the Office of

1	the Miners' Health I mean, you've got all kinds
2	of things that need certification. Your gas well
3	locations. I mean, you name it.
4	Q. Okay. With regard to the tax
5	certifications, those go to the State Tax
6	Department; is that correct?
7	A. Say that again.
8	Q. They go to the State Tax Department?
9	A. Yes, it does.
10	Q. And under West Virginia state tax law,
11	there is a requirement that active coal reserves be
12	valued; is that correct?
13	A. Correct.
14	Q. And there's a methodology for that
15	valuation the State Tax Department provides?
16	A. And they sure have convoluted it.
17	Q. It's changed from what it was 10 years
18	ago; is that correct?
19	A. Yeah.
20	Q. At one point it was the value assigned to
21	inactive reserves do you work on inactive
22	reserve valuation?
23	A. Yeah. The inactive reserve valuation is
24	still done by the landowners, so

1	Q. Well, there's a methodology that the tax
2	department utilizes to value inactive reserves. At
3	one point it was looking at a whole bunch of coal
4	leases and coal deeds and sort of dividing the
5	acreage up with the sale or the lease price; is
6	that correct?
7	A. Yes.
8	Q. But that changed; is that correct?
9	A. Yes.
10	Q. And with the active reserves, you
11	mentioned that the planning to move the longwall
12	back to UBB must have been decided in 2007 because
13	of the work you did on the active coal reserve
14	taxes.
15	A. Yes.
16	Q. And so what you meant there, the
17	significance of that testimony was that someone had
18	told you, We are going to go back into UBB, set up
19	a longwall or not, we're going to go back into UBB,
20	and so you have to report that as an active reserve
21	to the State Tax Department?
22	A. Exactly. Yes.
23	Q. And who would have told you that?
24	A. I probably heard it from a CAD operator.

1	Q. Well, your company wouldn't want have
2	wanted you to be sending in a report that would
3	result in much higher taxes for what had been
4	designated by you as inactive reserves unless you
5	were sure of that; correct?
6	A. Yes.
7	Q. So
8	A. I confirmed it probably with someone.
9	Q. Would that be in writing?
10	A. No.
11	Q. No?
12	A. No. I mean
13	Q. How do you
14	A. We're all right there.
15	Q. Well, I understand that, but whoever made
16	the decision to go back, take the longwall back to
17	UBB, wasn't working in your office, was he?
18	A. No, I don't
19	Q. So how did that information get to your
20	office so that you would know for sure to change
21	the tax reporting to identify this area at UBB
22	where the mining started up again and the longwall
23	was moved in 2009? How would you know that?
24	A. Somebody told me.

1	Q.	Somebody from outside your office?
2	A.	Yes. Okay.
3	Q.	So there would have to be wouldn't
4	there be	a paper trail, e-mails? I mean, you
5	wouldn't	just go off on your own and get a
6	telephone	e call and go and change the inactive
7	reserves	to active reserves, would you?
8	Α.	Probably.
9	Q.	You would?
10	A.	Yeah.
11	Q.	So when you say 2007, when are those
12	tax th	nat tax reporting, the changing from
13	inactive	reserves to active reserves, when is that
14	supposed	to
15	Α.	July 1st of each year. July 1st. It's
16	what you	own July 1st, say 2010, but that's called
17	tax year	2011.
18	Q.	So when you say 2007, when did you report
19	that?	
20	A.	2008.
21	Q.	By July 1st, 2008?
22	Α.	Yeah. And I'm sure by then I had
23	determine	ed that it was true.
24	Q.	So it was likely you knew first learned

1	about going back into UBB and designating it an
2	active mining operation, that you learned that in
3	2008; is that correct?
4	A. In two thousand
5	Q. 2008.
6	A. No. I think I probably heard about it in
7	2007.
8	Q. You have some definite recollection?
9	A. Yeah.
10	Q. When in 2007 would that have been?
11	A. It was in the fall. That's the best I can
12	tell you.
13	Q. You didn't mention Nick McCroskey who was
14	killed in the explosion. Did he
15	A. Nick worked with me or worked as a young
16	engineer in the office for I think around six
17	months.
18	Q. When would that have been?
19	A. Right in 2006. I think he might have
20	started just a month or so after I did. And he
21	found that he liked the hands-on work better than
22	engineering work.
23	Q. What do you mean hands-on?
24	A. Getting dirty and going underground and

		MD C. DIMINARD HAAR DI MIC MCGINIEI
1	doing th	ings like that.
2	Q.	Did he get paid more?
3	A.	You know, I don't know. I really don't.
4	I know w	hen I I got an extra \$70 a month back in
5	1972 for	that, but I don't know if they got
6	anything	for it.
7	Q.	Are you salaried or management?
8	A.	Salaried.
9	Q.	You're salaried.
10		You testified about the 1200 map. That
11	1200 ref	ers to the scale of the map?
12	A.	No.
13	Q.	What's it refer to? Explain that for the
14	record.	
15	A.	It's
16	Q.	Why do you call it the 1200 map?
17	A.	I don't know. But it's the map that is at
18	the mine	•
19	Q.	Okay. And what does that map
20	Α.	It's got everything.
21	Q.	depict?
22	A.	Everything on it.
23	Q.	What's the scale on it? Do you know?
24	A.	I'm guessing 400, 400 foot to the inch,

1	500 foot to the inch. I don't know.
2	Q. So what does that map at the mine
3	represent? Is that the current approved mine plan,
4	or does it also reflect unapproved changes that are
5	being proposed?
6	A. I don't think it has anything to do with
7	the mine plan.
8	Q. Well, what information do your engineers
9	and CAD operators, surveyors, retrieve from that
10	map to utilize?
11	A. Changes that occur they place on that map
12	by pencil or pen or something like that.
13	Q. Are those changes
14	A. It truly is a current map.
15	Q. Do those changes penciled in reflect
16	changes that have been approved by MSHA and the
17	State?
18	A. I can't tell you that.
19	Q. So would your engineers that go up there
20	and retrieve the information know whether those
21	markings are approved
22	A. Yes.
23	Q by MSHA and the State?
24	A. Yes.

1	Q. Do you ever ask them?
2	A. No.
3	Q. Do you know how they know that?
4	A. (Shaking head.)
5	Q. You have to respond.
6	A. No.
7	I'm sorry. It's hard to watch somebody
8	sit there and move their head and you can't I
9	move mine with it.
10	Q. So when you testified that ventilation
11	changes were made by management and not by the
12	engineers, I know you said that engineers play a
13	role, but some changes
14	A. Right.
15	Q. Management has a lot to do with it;
16	correct?
17	A. Correct.
18	Q. And how were those changes made by
19	management communicated to the engineers that work
20	in your office?
21	A. Number one, they may be told that, I mean,
22	but if it's not a serious change it may be, you
23	know, a movement of a regulator. It's probably on
24	the map.

1	Q. What about when you say "serious
2	changes," how do you define that?
3	A. Well, direction of air, change the path of
4	the air. Those would be serious changes.
5	Q. How were those serious changes
6	communicated to
7	A. They would come down and discuss them and
8	more than likely they had to apply for apply for
9	a ventilation change.
10	Q. Okay. So in applying for a ventilation
11	change, is a map submitted to the regulatory agency
12	showing those significant ventilation changes?
13	A. Say that again.
14	Q. When the company wants to make a
15	ventilation change that requires regulatory agency
16	approval, do you submit a map
17	A. Yes.
18	Q with the plan?
19	A. Yes.
20	Q. Where does the information that goes on
21	that map come from? How is that communicated to
22	your engineers and the AutoCAD operators from
23	management?
24	A. It comes from management.

1	Q. How do they do that? Do they do it in
2	writing?
3	A. A lot of times they come down to the
	-
4	office and they talk to them.
5	Now, as a result of that, there may be a
6	map produced as they're speaking, and then it's
7	transferred to AutoCAD and on a map. I don't think
8	those maps need to be certified, if I'm not
9	mistaken.
10	Q. But they are submitted to regulatory
11	agencies; is that correct?
12	A. Yeah.
13	Q. And the regulatory agency has the
14	expectation that those would be correct and
15	accurate; is that correct?
16	A. That's correct.
17	Q. Just they don't need a Professional
18	Engineer's seal; is that correct?
19	A. I believe that's correct.
20	Q. So who is it that would come down, say in
21	the last two years at UBB, when ventilation changes
22	that had to be submitted to the regulatory agencies
23	were being made to do what you have just described?
24	A. I'm guessing Everett Hager came down.

ŗ	RAYMOND C. BRAINARD EXAM BY MR. McGINLEY
1	Q. Well, it's a small office, so who came
2	down? Everett Hager?
3	A. Most of the time I would see Everett Hager
4	there. Okay.
5	Q. Did any other management play any role in
6	communicating what management wanted in terms of
7	ventilation, significant ventilation changes?
8	A. He may have sent someone else, but I don't
9	know who they were.
10	Q. Did you ever talk to any of the management
11	about ventilation changes?
12	A. No.
13	Q. Did you ever talk to management about the
14	ventilation plan that you certified?
15	A. Ventilation plan that I
16	Q. Do you certify, you said, the yearly
17	ventilation plan, the map?
18	A. Oh, yeah, I did.
19	Q. Who did you talk to?
20	A. I would have talked to I would have
21	said something to Leon.
22	Q. Leon?
23	A. No. Everett. Matt. I can't remember.
24	First names, I have probably got them, but I

1	don't the superintendents.
2	Q. The superintendents. How about the
3	president and the vice president?
4	A. Pardon?
5	Q. Did you ever talk to the president or vice
6	president?
7	A. I talked to them, but not specifically
8	about that.
9	Q. And so did you certify the ventilation map
10	that accompanied the ventilation plan when the
11	longwall moved back to UBB?
12	A. I do not know if I did or not.
13	Q. Because you were out sick, you can't
14	remember that?
15	A. Well, there's just so many of them.
16	Q. So
17	A. If you could get the map or something, we
18	could check.
19	Q. Sure. So you certified maps using your
20	Professional Engineering seal for, at one time or
21	another, all the mines within the purview of
22	Route 3 Engineering. Is that accurate?
23	A. That's probably true.
24	Q. Others did it as well, I mean, at least

	RAIMOND C. DIATINAND EARLY DI FIX. MCGINIEI
1	who else had a PE stamp?
2	A. Paul.
3	Q. Paul McCombs had it. Anyone else?
4	A. Oh, George did until he died. Let me
5	think. I don't think there was anybody Mike
6	Milam did, but he left.
7	Q. So really the responsibility for
8	certifying all these maps rested on you and Paul
9	McCombs; is that correct?
10	A. Yeah. Yes, it did.
11	Q. And did one of you do more than the other
12	in terms of certifying?
13	A. He was awful busy with permit issues,
14	outside environmental issues, so I probably did a
15	few more than he did.
16	Q. So with regard to what were you saying,
17	16 or 18 mines within Route 3 Engineering?
18	A. 14. 14. 12 to 14 mines and 19 sections,
19	I believe.
20	Q. So that's a lot of maps that you were
21	certifying; is that correct?
22	A. It certainly is.
23	Q. How many would you estimate in a year that
24	you would certify?

1	А.	How many?
2	Q.	Maps did you certify with your PE stamp?
3	Α.	In a year? Goodness.
4	Q.	Just a ballpark.
5	A.	You realize that there's probably seven
6	maps for	each one. I mean, that's how many
7	copies.	Probably 500.
8	Q.	Okay. So
9	Α.	And that's not counting tax maps now.
10	Q.	Okay. But including copies? The 500
11	includes	the copies or not?
12	Α.	Of tax maps?
13	Q.	No, no.
14	Α.	Yes, it does.
15	Q.	The 500 doesn't include the tax maps?
16	Α.	No.
17	Q.	And how many of those do you do? Many
18	more tax	maps you certify than
19	Α.	Well, probably six or seven hundred.
20	Q.	So all told in a year you certify
21	Α.	A thousand.
22	Q.	More than a thousand?
23	Α.	Yeah.
24	Q.	Is that fair?

1	So that doesn't give you a lot of time to
2	review the maps?
3	A. No, that's not true. The map was reviewed
4	thoroughly before I ever signed it.
5	Q. And what do you review it for? You've got
6	the checklist?
7	A. I've got the checklist.
8	Q. Do you review it for anything that isn't
9	on the checklist?
10	A. I can't sorry?
11	Q. Do you review the map for anything that
12	isn't on the checklist?
13	A. I'm pretty sure our checklist is very
14	is comprehensive enough that it covers everything.
15	Q. You say it's three pages?
16	A. Yes.
17	Q. What are the things that are on the
18	checklist? You have obviously done it thousands of
19	times.
20	A. Yeah. You're going through to make sure
21	the seam is there, the coordinates at the entry, at
22	the opening are on the map. You're making sure
23	that the topographical features are there. You're
24	making sure that the air readings are taken at

1	splits, at EPs.
2	Goodness. I wish I had one, but I don't.
3	Q. What is there on the checklist that deals
4	with ventilation?
5	A. I'm sorry?
6	Q. What is there on the checklist that deals
7	with ventilation? What items on the checklist deal
8	with ventilation?
9	A. Oh, the EP points, the air readings.
10	Yeah. The fan pressures.
11	Q. Anything else? EP points, air readings,
12	fan pressures.
13	A. You've got arrows have got to be
14	everywhere. You've got to know the direction of
15	the air. Your fresh-air escapeways. Belt.
16	Track. Ventilation doors.
17	Q. Overcast?
18	A. Yeah. Yeah. Overcast.
19	Q. You had a lot more ventilation doors than
20	overcasts at UBB; is that correct?
21	A. Yes.
22	Q. Do you know why that is?
23	A. Just the way they laid it out.
24	Q. So you didn't have anything to do with the

1	choice between ventilation doors and overcasts?
2	A. No, sir.
3	Q. Who would have made that decision?
4	A. I have no idea.
5	Q. You said that's the way they laid it out.
6	A. Yeah. I'm guessing that decision was made
7	many years ago.
8	Q. Were there more overcasts at UBB before
9	the new part of the mine was open than there were
10	doors? I'm talking about when the longwall came
11	back in late summer of 2009 there was a mine plan
12	that included more doors than overcasts,
13	significantly more. Is that correct?
14	A. I do not know that.
15	Q. The mine before the longwall came back,
16	before the longwall left, were there more doors
17	than overcasts?
18	A. I do not know that.
19	Q. So when you say air readings, you
20	certify the checklist has air readings, what
21	does that mean?
22	A. Volumes of air.
23	Q. What do you put on the map in terms of
24	volumes of air?

1	A. How many CFM.
2	Q. Is what? Expected there? That will be
3	there? Are you certifying that's the amount of air
4	that will be delivered?
5	A. That was the amount of air that was there
6	at the time they took the reading.
7	Q. And how do you know that?
8	A. Because, first of all, you've got to trust
9	that they're doing what they're supposed to be
10	doing.
11	Q. That's what I mean. You get the
12	information from someone else?
13	A. Yes.
14	Q. How does that come to you?
15	A. On the map.
16	Q. Who puts it on the map?
17	A. They do.
18	Q. So who is "they"?
19	A. The men the foreman, superintendent,
20	whoever was in the mine assigned to those
21	particular points to get the air readings at that
22	time.
23	Q. So is there a document that well, who
24	makes that map up? Is it your people, the

RAYMOND C. BRAINARD -- EXAM BY MR. McGINLEY

1	engineers, that would put that number there?
2	A. They may give them a piece of a map and
3	say they need those readings at those locations.
4	Q. These are the readings that we just took,
5	and you're going to put it put it on the map
6	that you're going to certify?
7	A. Right.
8	Q. So you get the information from mine
9	management, foremen, somebody in the mine; correct?
10	A. Yes. And in some cases, when it doesn't
11	look right, the engineer goes back and takes the
12	reading or asks someone else to go back and take a
13	reading.
14	Q. When wouldn't it look right? How would
15	you know if it doesn't look right?
16	A. Well, maybe there was too much air coming
17	in and not enough going out. I mean, it's a
18	balance, so you've got an idea how about how
19	much it should be.
20	Q. Okay. So there's documentation of what
21	mine management said was the air flow at the
22	individual points that went into the map you
23	certified; is that correct?
24	A. I believe it's in their fire boss books

1	too.
2	Q. So we could look at the fire boss books at
3	the time when you certified the maps and compare
4	the ventilation, the airflow indicated on the maps
5	with what the fire boss said about those particular
6	points; is that correct?
7	A. Yes, sir, you should be able to do that.
8	Q. And they should be the same, essentially
9	the same?
10	A. Well, it's close. Okay.
11	MR. McCUSKEY: Professor, do you have any
12	idea how much longer you're going to be?
13	MR. McGINLEY: Just a couple of minutes.
14	Q. Did you ever talk to Eric Lilly after the
15	explosion?
16	A. Say that
17	Q. Did you ever talk to Eric Lilly after the
18	explosion?
19	A. I probably did, but not necessarily about
20	the explosion.
21	Q. Let me ask you this. You had a small
22	office. There was a lot of talk among the group
23	that worked closely together. After the explosion,
24	did you-all talk about the possibility that there

1	were ventilation problems there that contributed to
2	the explosion?
3	A. No.
4	Q. You never talked about that?
5	A. No.
6	Q. You weren't
7	A. I was not privy to any of that information.
8	Q. I'm just talking about the people that you
9	regularly work with.
10	A. No. I think there was more concern about
11	the families and doing what we could. I mean, they
12	opened up the safety building for the families, and
13	a lot of us were going down there and helping out
14	down there. It was a grim time.
15	Q. No, I understand that. But after I
16	completely understand that. You wouldn't have been
17	talking about ventilation or whatever. You're
18	concerned about the family.
19	But there came a point in time where you
20	got back to doing work as usual, and you had the
21	backdrop of that was an explosion that killed 29
22	men.
23	You folks worked on ventilation plans.
24	I'm just wondering if there was ever any discussion

1	about the role ventilation might have played in the
2	explosion amongst those of you who worked on the
3	ventilation plans.
4	A. I guess, truthfully, they those
5	articles, those press releases and things, I'm sure
6	those were discussed, you know, as they appeared or
7	whatever.
8	Q. You mean press releases in the sense of
9	Massey's press releases or newspaper reports?
10	A. Whoever's they were, yeah. MSHA's or
11	Q. Okay. Let me ask you, just in closing, a
12	couple of questions.
13	I'm going to read you a few sentences
14	here, and tell me whether each sentence is you
15	agree with it and it's true or it's not true or you
16	don't know.
17	A. Okay.
18	Q. Okay. "At Upper Big Branch, we complied
19	with MSHA safety orders even when we strenuously
20	disagreed with them and believed them to be
21	detrimental to the health and safety of the mine."
22	A. My choices are?
23	Q. True, not true, I don't know.
24	A. I don't know.

1	Q. "In particular" another sentence. "In
2	particular, we disagreed with MSHA's ventilation
3	plan for the Upper Big Branch mine."
4	True, false, you don't know?
5	A. That's true.
6	Q. What disagreement was there with regard to
7	MSHA's ventilation plan for the Upper Big Branch
8	mine?
9	A. It was compared to mines in the north that
10	there was a lot more gas at those mines. I think
11	the plan, they cut back the flow of air.
12	Therefore, they cut the pressure against the gob,
13	so it allowed more gas to build up.
14	Q. So was if
15	MR. McCUSKEY: Would you clarify who
16	you're talking about, "they"? I think that will be
17	important. When you said "they did this," who
18	you're talking about.
19	MR. McGINLEY: Thank you. That's
20	important.
21	MR. McCUSKEY: I think he would like
22	the record would be clarified. When you said "they
23	made this and that change, " who is "they"?
24	THE WITNESS: The change occurred, I

1	guess, because of MSHA's not approving our
2	ventilation plan. And, therefore, the airflow was
3	cut to the longwall face and it less pressure,
4	more gas.
5	Is that better understood?
6	MR. McGINLEY: I understand what you're
7	saying.
8	BY MR. MCGINLEY:
9	Q. So did you certify a map reflecting the
10	changes that responded to MSHA's actions?
11	A. I did if I certified the last map, but
12	Q. Would you or your engineers ever certify a
13	map in connection with a ventilation plan or agree
14	with a ventilation plan that was detrimental to the
15	safety of the mine?
16	A. Of course not.
17	Q. So that the maps that were submitted to
18	MSHA after MSHA had failed to approve changes in
19	ventilation, the plans that you submitted you felt
20	would protect the health and safety of the miners;
21	is that correct?
22	A. I'm
23	Q. Let me rephrase it if you don't understand
24	it. Let me ask another question.

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1	Route 3 Engineering response, UBB's response, was
2	to submit ventilation plans that would protect the
3	health and safety of the miners at UBB; is that
4	correct?
5	A. Okay.
6	Q. Is that correct?
7	A. That's correct.
8	Q. So whether or not you disagreed with MSHA,
9	MSHA decisions, that didn't interfere with your
10	ability, and Route 3 Engineering at Performance
11	Coal or Massey Coal Services, to come up with a
12	ventilation plan that would protect the health and
13	safety of the miners at Upper Big Branch; is that
14	correct?
15	A. That's correct.
16	Q. Tell me whether this sentence is true,
17	false, or you don't know.
18	A. Okay.
19	Q. "We opposed the changes because our
20	engineers, meaning Massey engineers, believed they
21	made the mine less safe, not because they were more
22	costly or because they interfered with production."
23	A. That's true.
24	Q. How much less safe did changes in the

1	ventilation plan at UBB make the mine?
2	A. I don't know.
3	Q. That doesn't mean to say that the changes
4	that Massey made in the ventilation plan at UBB
5	made the mine unsafe; correct?
6	A. That Massey made
7	Q. Yes.
8	A. Yes, that's correct.
9	Q. So in your view what MSHA did made the
10	mine less safe, is that correct, but you can't say
11	how much less safe?
12	A. That's correct.
13	Q. And it did not whatever MSHA did, did
14	not result in the mine being made unsafe; correct?
15	A. That I don't know.
16	Q. Well
17	A. I mean
18	Q. The plans that your folks worked on at
19	Route 3 Engineering, that Massey submitted, that
20	were ultimately approved by MSHA, did not make the
21	mine unsafe, is that correct, or you wouldn't have
22	submitted them?
23	A. That's correct.
24	Q. When you certify a mine map to MSHA, for

1	submission to MSHA, that has to be done twice a
2	year?
3	A. Yeah.
4	Q. That allows you're basically certifying
5	that everything within a thousand feet, is that
6	right, from the projections is safe?
7	A. Uh-huh.
8	Q. Is that correct?
9	A. Correct.
10	Q. And beyond that you're not certifying
11	the If the mining goes beyond the thousand feet,
12	you're not certifying, when you put your PE stamp,
13	that any mining that is conducted will be safe?
14	A. Where do you get that?
15	Q. I'm just asking you.
16	A. No. Specifically, where
17	Q. Do you know anything about the thousand
18	foot certification?
19	A. No, sir.
20	Q. Not familiar with it?
21	A. No. I don't know who could certify a
22	thousand foot of empty space that you can't see is
23	safe. They better hire him instead of me.
24	MR. McGINLEY: That's all I have. Thank

you, sir. 1 MR. STOLTZ: I've got a few, a couple 2 3 quick follow-up questions. EXAMINATION 4 BY MR. STOLTZ: 5 **Q**. You mentioned that you use a checklist. 6 7 Α. I'm sorry. Yes. Q. You mentioned --8 Yes. 9 Α. Q. -- about this checklist. 10 Yes. 11 Α. Who developed the checklist? 12 Q. I can only guess. I don't know, but I 13 Α. think -- I think it's been added to over the 14 years. Okay. It certainly was far from complete 15 as you started, because MSHA -- there keeps being 16 more requirements. So it's been added to. 17 Have you ever personally went back then 18 **Q**. 19 and compared -- I guess you're comparing your checklist to the regulations then? 20 That has been done. 21 Α. 22 Q. You have done it personally? No, I haven't. I relied on Mike Milam. Α. 23 And do you know when the last review was? 24 Q.

1	A. Yeah, I guess I do. Mike Milam was still
2	here. About three years ago.
3	Q. About three years?
4	A. Yeah.
5	Q. Would it have been would you or
6	somebody else have updated it then for the changes
7	in regulations after during that three-year
8	period since he last reviewed it?
9	A. I cannot answer that. I don't know.
10	Q. Because there have been reg changes.
11	A. There probably have. And I hope we have
12	done that.
13	Q. Curious. Just curious. What do you
14	estimate for timewise that once you receive a map
15	to certify, how long does it take you to review
16	that map before you put your stamp on it? I
17	mean
18	A. This one?
19	Q. Well, at UBB. Say UBB then. How long
20	would it take you?
21	A. Probably a good three hours.
22	Q. Three hours?
23	A. Yeah. I mean, if you're going to follow
24	everything, it will take that long.

1	Q. I guess when you say "follow everything,"
2	what's your procedure or what's the process you
3	walk yourself through?
4	A. You start with the arrows.
5	Q. Start with the arrows?
6	A. Start with the arrows and make sure they
7	remain the right color and they turn the places
8	they're supposed to turn and go out where they're
9	supposed to go out.
10	Q. Do you physically then check the Q?
11	A. I'm sorry?
12	Q. Do you actually physically have a
13	calculator on hand to check the Q's? I'm just
14	throwing that out.
15	A. Yeah.
16	Q. You punch through the Q's and check the
17	ins and outs or splits, quantities?
18	A. Yes.
19	Q. Then walk yourself through the stoppings?
20	A. Yes. Because not every mine is as
21	complicated as this one.
22	Q. Yes. Exactly right. Yes.
23	A. Some it's like checking three different
24	things and you've got it.

1	Q. And some are more complicated, such as
2	UBB.
3	A. They certainly are.
4	Q. So you would estimate about three hours
5	for UBB then?
6	A. I think if yeah. For me. I may be a
7	little slow.
8	Q. I guess do you have any idea of how the
9	velocities on the longwall face were determined?
10	A. No. But I'm guessing no. I won't
11	guess. I don't know.
12	Q. How about the curious I'm curious,
13	because we show numerous gas wells here. How does
14	that information get transferred onto your mine
15	map? Who is responsible for that, or how does that
16	get transferred?
17	A. It's probably about the same procedure.
18	You have got your AutoCAD guy placing the
19	measurements or the information obtained from the
20	oil and gas section, the natural resources, and the
21	engineer will check that, and then I'll look at it
22	and certify it.
23	Q. So you have a written procedure then in
24	the office for the engineer to

1	A. Yeah. There's forms.
2	Q. There's forms. Okay. Do you have any
3	idea about the bleeder system of this, the current
4	longwall at UBB?
5	A. The what?
6	Q. The bleeder system, the shaft, you know,
7	who designed the shaft or the
8	A. No, I don't know.
9	Q. Anything about the bleeder system?
10	A. No.
11	Q. Do you know a gentleman, Motombo Nambe?
12	A. Say that again.
13	Q. Motombo Nambe. Nambe.
14	A. Marcombo.
15	Q. Marcombo?
16	A. I think I do.
17	Q. Okay. Maybe that's his name.
18	A. Could I look at it?
19	Q. Well, no. I just wrote it how how
20	would you pronounce the name?
21	A. Marcombo?
22	Q. Okay. Do you know him?
23	A. Is he an engineer up at Progress?
24	Q. He was an engineer. Is he up at Progress

now, I quess? 1 If we're talking about the same guy, 2 Α. that's where I know him. 3 MS. HAMPTON: We have some information, a 4 name was given to us, Motombo Nambe, and we were 5 told that he might have filled in right after 6 George Levo passed away, before the --7 THE WITNESS: Oh, no, no, no. Wait. 8 MS. HAMPTON: And he might have moved to 9 10 Texas. THE WITNESS: You know, yes, he was. 11 You're right. Okay. Yeah. The black guy. 12 MS. HAMPTON: Okay. 13 THE WITNESS: Yeah. But he wasn't here 14 very long. 15 MS. HAMPTON: Okay. And is it your belief 16 that he moved to Texas, or do you know? 17 THE WITNESS: Yeah. Yeah. I'll bet he 18 wasn't there two weeks or something. Maybe less 19 than that. He's Nigerian. Yeah. But the guy up 20 on top of the hill is Nigerian, too, and almost has 21 22 the same name. BY MR. STOLTZ: 23 Do you know who was responsible for the 24 Q.

ventilation information on the annual mine map? 1 Α. The information? 2 On the annual mine map, who is responsible **Q**. 3 for that? 4 If I'm certifying it, I think I'm 5 Α. responsible. 6 7 Then there's a name provided on the annual Q. 8 mine map then that says --It's me and the superintendent. 9 Α. 10 Q. You and the superintendent? A. Yes. 11 Q. At each mine? 12 A. At each mine. Or Paul and the 13 superintendent, you know. 14 Are both names on the annual map or is Q. 15 just one? 16 Yes, they are. 17 Α. They both are? Q. 18 19 Α. Yes. 20 MR. McCUSKEY: When you said "both," did 21 you mean the superintendent and one of the 22 engineers? MR. STOLTZ: Yes. 23 MR. McCUSKEY: Not both engineers? 24

MR. STOLTZ: No. 1 MR. McCUSKEY: Okay. I just wanted to 2 make sure. 3 MR. STOLTZ: 4 Sorry. THE WITNESS: I knew what you meant. 5 MR. STOLTZ: Thank you. 6 7 BY MR. STOLTZ: Q. Was there any sort of annual or periodic 8 review of the general conditions or mine plans, say 9 of Upper Big Branch, that you're aware of? 10 No. I am not -- not in our office. 11 Α. I'm not aware of it in our office. 12 Would you with -- would you -- would you 13 Q. expect there was or would you think there would 14 have been some sort of review between management 15 and engineering? 16 17 Α. I expect there was, and I expect it took place up on the hill. 18 And then that person probably would have 19 Q. been Mr. Lilly since he was --20 Yeah. 21 Α. 22 Q. -- the on-site engineer at the time? Yeah. Α. 23 Would you have expected this meeting 24 Q.

1	taking place or this informational gathering would
2	have been between Mr. Lilly and who? Who from
3	management?
4	A. Superintendent.
5	Q. Superintendent.
6	A. Or general superintendent. And I think,
7	depending on the subject, probably Paul McCombs was
8	there.
9	Q. Are you aware of any problems or
10	misunderstandings between engineering and mine
11	management at Upper Big Branch, I mean, your daily
12	interactions or your interactions back and forth?
13	A. No, I'm not.
14	MR. KOERBER: Pat, got anything else?
15	EXAMINATION
16	BY MR. MCGINLEY:
17	Q. Let me just ask you, with regard to your
18	testimony that there were engineers, management
19	that disagreed with MSHA's actions regarding
20	ventilation plans, was any of that were any of
21	those objections ever reduced to writing? Was
22	there an analysis done that indicated why the
23	company believed that
24	A. If there was, I'm not aware of it.

2some talk that MSHA's decision might have made the3mine less safe, but you don't know how much less4safe; correct?5A. That MSHA's say that again.6Q. The only thing that you know about the7engineers in Route 3 Engineering or the management8at UBB's dislike of MSHA's actions regarding9ventilation plans was just a matter of oral10conversation?11A. Correct. Correct.12MR. McGINLEY: That's all.13MR. STOLTZ: One more.14EXAMINATION15BY MR. STOLTZ:16Q. Just curious now. I have heard it a17couple of times.18A. It's okay.19Q. Is there any this dislike I keep20hearing, and in your position, is there any I21guess what specifically was dislike? I mean, is22there something specific? I hear a lot of23generalities.24A. I think anytime you reduce airflow to the	1	Q. So all that you know is that there was
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23 generalities.	21	guess what specifically was disliked? I mean, is
	22	there something specific? I hear a lot of
A. I think anytime you reduce airflow to the	23	generalities.
	24	A. I think anytime you reduce airflow to the

1	face that you're going against engineering
2	principles. I think that's the whole thing.
3	Q. You're referring to across the longwall
4	face?
5	A. Yes.
6	Q. You're saying then that MSHA specifically
7	dictated a reduction in airflow across the longwall
8	face?
9	A. No, I'm not saying they specifically
10	Q. Or it's just a
11	A. But what their actions caused the
12	reduction. That's only me. I'm not there's
13	nobody else. I'm the only one here.
14	MR. McCUSKEY: Let the record reflect that
15	Mr. Stoltz is grinning and laughing.
16	And that's certainly your right to do,
17	sir, but he's giving an answer to your questions,
18	and if you don't like them, I don't think your face
19	gestures are appropriate to laugh at this witness
20	who has come here today to try to give his version
21	of the truth as he believes it and respond to your
22	questions.
23	MR. McGINLEY: Let me say that I disagree
24	with that representation of counsel. I don't think

that's --1 MR. McCUSKEY: Well, then we can ask the 2 court reporter if he's here laughing or not. 3 MR. McGINLEY: That's not an appropriate 4 thing to ask the court reporter. 5 MR. McCUSKEY: Okay. It's not an 6 7 appropriate for you to comment on either. MR. McGINLEY: Yes, it is, because I'm 8 here just as well as you are, sir. 9 10 MR. McCUSKEY: Can you see his face? MR. McGINLEY: I disagree with you. 11 MR. McCUSKEY: Can you see his face? 12 MR. McGINLEY: Reasonable people can 13 differ. Yes, I can. 14 MR. McCUSKEY: On whether he's laughing or 15 not? 16 MR. STOLTZ: I am not laughing at 17 Mr. Brainard, nor his response. I'm trying to --18 19 I'm trying to think if I should say anything else, to have another question. And I'm sorry if I'm 20 staring up at the lights, because that's what I 21 22 was, and I am not specifically, never have --THE WITNESS: No offense. 23 MR. McCUSKEY: I appreciate your apology 24

for intending to --1 MR. KOERBER: Let's move on. Let's move 2 Let's move on. 3 on. MR. STOLTZ: Apology. 4 Nothing more. 5 MR. McGINLEY: Let me ask you a couple 6 7 questions. THE WITNESS: Me? 8 MR. McGINLEY: Yes. 9 10 THE WITNESS: Oh, okay. MR. McGINLEY: I'm only asking questions 11 of you. I'm only permitted to ask questions of 12 13 you. THE WITNESS: Okay. You weren't looking 14 at me when you said that. 15 MR. McGINLEY: You haven't looked at me, 16 and you've been laughing a lot here, but we're 17 cooperating and just trying to get information. 18 You agree? 19 THE WITNESS: I agree. 20 EXAMINATION 21 22 BY MR. McGINLEY: So you testified, sir, that your view was 23 Q. that whenever you have less air at the longwall, 24

that's not good. Is that basically the --1 Yes. Yes, it is. Α. 2 And -- but you didn't -- strike that. Q. 3 Your testimony was not that MSHA caused 4 you to have less air at the longwall; is that 5 correct? 6 7 There was less air at the longwall. Α. That's all I know. 8 And why -- was the amount of air provided **Q**. 9 10 to the longwall the amount that you certified and that Massey approved as safe for the longwall in 11 response to MSHA's input about the ventilation 12 13 plan? We can phrase that in some kind of 14 Α. theoretical, because I don't know if I certified 15 it. 16 17 Q. Okay. Α. Okay? 18 Well, whether certified or not, the 19 Q. numbers, the airflow that was documented and 20 submitted to MSHA by Massey that would be available 21 22 on the longwall was an amount chosen by Massey; is that correct? 23 I cannot understand the "chosen by 24 Α.

	RAYMOND C. BRAINARD EXAM BY MR. MCGINLEY
1	Massey." I don't
2	Q. Fine. Let me rephrase the question and we
3	can get out of here.
4	A. Okay. Good.
5	Q. I'm just trying to
6	A. Well, I know you are, but "chosen by
7	Massey" doesn't relate.
8	Q. That's fine. I'll withdraw that.
9	Whether or not you certified a ventilation
10	map, there was a ventilation map submitted to MSHA
11	that reflected ventilation changes in response to
12	MSHA's disapproval of ventilation plans.
13	A. Okay.
14	Q. Is that correct?
15	A. That's correct.
16	Q. And that map had an amount of air that
17	would be at the longwall face; is that correct?
18	A. Yes.
19	Q. And that amount of air was the amount of
20	air that Massey chose to put across the longwall
21	and on the basis of Massey's evaluation of
22	ventilation which would make the longwall in the
23	rest of the mine safe; is that correct?
24	A. No. I think the amount of air going

1	across the longwall face was dictated by the
2	controls that were placed in the mine. I don't
3	think chosen is correct.
4	You make certain changes, you're going to
5	make changes to the air.
6	Q. Well, the changes that were strike
7	that.
8	The changes that were made by Massey and
9	submitted as part of the ventilation plan that was
10	approved by MSHA in 2010
11	A. Yeah. We're there. I got that.
12	Q. Okay. There's an amount of air in
13	different places of the mine that would be
14	delivered according to that plan; is that correct?
15	A. Okay. Yes. That is correct.
16	Q. And that amount of air was decided upon,
17	and the flow of the air and so forth was the
18	decision of Massey; is that correct?
19	A. It probably is correct, but with the
20	caveat that that's probably the only choice they
21	had.
22	Q. On what basis do you say that?
23	A. To get their plan approved.
24	Q. Was there any study, is there any written

1	report that documents the consideration of
2	alternatives with regard to the ventilation plan
3	that was submitted after MSHA's disapproval?
4	A. I do not know.
5	Q. Would you expect that you would know,
6	considering you work in a small office and you-all
7	talk together?
8	A. No. There's lots of things I don't know.
9	MR. McGINLEY: Okay. Thank you very much,
10	sir.
11	MR. KOERBER: Mr. Brainard, again, we
12	would like to thank you or I would like to
13	personally thank you for coming here today.
14	MS. HAMPTON: Just one second. I think we
15	have one more question.
16	MR. STOLTZ: Apologize. I'm sorry.
17	Ready?
18	THE WITNESS: We're all looking at you.
19	MR. STOLTZ: Ready for one more question?
20	THE DEPONENT: Yeah.
21	EXAMINATION
22	BY MR. STOLTZ:
23	Q. Quick question was, why was the
24	ventilation to the longwall dropped from 2006?

1	When the longwall left, it was probably 100,000 CFM
2	across the face; and when it returned to UBB mine,
3	it was, I think, around 30,000 CFM is what it was.
4	A. That's not my understanding of
5	Q. Initially during the startup, that's I
6	guess
7	A. I have in my opinion, it's been
8	consistent at 100. So I have missed something
9	somewhere.
10	Q. Well, even your examination records you
11	say it's consistent at 100, but, you know, it shows
12	that weekly exam records show that there's been
13	at times drops down to 50,000. Then it went back
14	up again to a higher quantity.
15	You're not familiar with that or
16	A. No. No.
17	MR. STOLTZ: Okay.
18	MR. KOERBER: Okay. Mr. Brainard, thank
19	you for coming today.
20	I just want to let you know that after all
21	the interviews are over certain people may be
22	re-called for a second interview because there may
23	be some additional information that somebody deems
24	necessary. So I just want you to be aware of that

1 potential.

2	I would also like to give you a moment or
3	I would like to give you as much time as you need
4	to make any comments, clarify anything on the
5	record, or make any statement that you would like
6	to make, or if you have anything to add that you
7	believe this body needs to know that was not asked
8	of you, now is your time to make that statement.
9	THE WITNESS: I don't really have anything
10	to say, but I commend the effort being made to
11	determine what happened at UBB. I mean, that's the
12	reason that I'm here, and I hope that's the reason
13	you're here.
14	MR. KOERBER: Yes, sir. Okay. Anything
15	else you want to add? Anything?
16	MR. McCUSKEY: May I add my request to the
17	record, on behalf of Mr. Brainard, that he would
18	request that the court reporter send a copy of the
19	transcript as soon as it's prepared to his home.
20	You gave your home address, I think,
21	didn't you?
22	THE WITNESS: Yes.
23	MR. McCUSKEY: To him for his review.
24	THE WITNESS: I thought I thought he

said --1 MR. McCUSKEY: That's what he said. I'm 2 talking about what you want, not what he wants. 3 THE WITNESS: Oh. 4 MR. KOERBER: For the record, I'll restate 5 the transcript should be available at Johnny 6 Jackson & Associates come Monday, November 1. 7 Johnny Jackson & Associates is in 8 Charleston, West Virginia. I'm sure your attorney 9 knows the telephone number and the location. 10 Please feel free to contact them and set 11 up a time where you can go to their office and 12 review your transcript. 13 Anything else? 14 We're off the record. 15 (Interview of RAYMOND C. BRAINARD 16 concluded at 12:18 p.m.) 17 18 19 20 21 22 23 24

1	STATE OF WEST VIRGINIA, To-wit:
2	I, Elizabeth A. Howd, a Notary Public,
3	Registered Diplomate Reporter, and Certified
4	Realtime Reporter, within and for the State
5	aforesaid, duly commissioned and qualified, do
6	hereby certify that the interview of RAYMOND C.
7	BRAINARD was duly taken by me and before me at the
8	time and place specified in the caption hereof.
9	I do further certify that said proceedings
10	were correctly taken by me in stenotype notes, that
11	the same were accurately transcribed out in full
12	and true record of the testimony given by said
13	witness.
14	I further certify that I am neither
15	attorney or counsel for, nor related to or employed
16	by, any of the parties to the action in which these
17	proceedings were had, and further I am not a
18	relative or employee of any attorney or counsel
19	employed by the parties hereto or financially
20	interested in the action.
21	My commission expires the 5th day of July, 2012.
22	Given under my hand and seal this 27th day of October, 2010.
23	Elizabeth A. Howd, Notary Public
24	Registered Diplomate Reporter Certified Realtime Reporter