



**SARGENT'S
COURT
REPORTING**

Quality Work. Quality People.

Transcript of the Testimony of Jeffrey Kravitz

Date: September 20, 2010

Case:

Printed On: September 23, 2010

Sargent's Court Reporting Services, Inc.

Phone: 814-536-8908

Fax: 814-536-4968

Email: schedule@sargents.com

Internet: www.sargents.com

STATEMENT UNDER OATH
OF
JEFFREY KRAVITZ

taken pursuant to Notice by Alison Salyards, a Court Reporter and Notary Public in and for the State of West Virginia, at the National Mine Health and Safety Academy, 1301 Airport Road, Room C-137, Beaver, West Virginia, on Monday, September 20, 2010, beginning at 3:57 p.m.

Any reproduction of this transcript is prohibited without authorization by the certifying agency.

A P P E A R A N C E S

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

DANA L. FERGUSON, ESQUIRE
U.S. Department of Labor
Office of the Regional Solicitor
1100 Wilson Boulevard
22nd Floor West
Arlington, VA 22209-2247

JOHN T. O'BRIEN
Safety Instructor
West Virginia Office of Miners'
Health, Safety and Training
Region 2 - Welch Office
819 Stewart Street
Welch, WV 24801

TERRY FARLEY
West Virginia Office of Miners'
Health, Safety and Training
1615 Washington Street East
Charleston, WV 25311

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

A P P E A R A N C E S (cont.)

ERIK SHERER

Mine Safety and Health Administration

1100 Wilson Boulevard

Arlington, VA 22209-3939

BETH SPENCE

West Virginia Independent Investigation

(b) (7)(C)

(b) (7)(C)

I N D E X

1		
2		
3	OPENING STATEMENT	
4	By Attorney Ferguson	6 - 10
5	WITNESS: JEFFREY KRAVITZ	
6	EXAMINATION	
7	By Mr. Sherer	10 - 17
8	CLOSING STATEMENT	
9	By Attorney Ferguson	18
10	CERTIFICATE	19
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		

1		EXHIBIT PAGE	
2			PAGE
3	NUMBER	DESCRIPTION	IDENTIFIED
4		NONE OFFERED	
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

P R O C E E D I N G S

1
2 -----
3 ATTORNEY FERGUSON:

4 My name is Dana Ferguson. Today is
5 September 20th, 2010. I'm with the Office of the
6 Solicitor, United States Department of Labor. With me
7 is Erik Sherer, an accident investigator with the Mine
8 Safety and Health Administration, an agency of the
9 United States Department of Labor. Also present are
10 several people from the State of West Virginia. I
11 would ask that they state their appearance for the
12 record at this time.

13 MR. FARLEY:

14 I'm Terry Farley with the West Virginia
15 Office of Miners' Health, Safety and Training.

16 MR. O'BRIEN:

17 John O'Brien with the West Virginia
18 Office of Miners' Health, Safety and Training.

19 MS. SPENCE:

20 Beth Spence with the Governor's
21 independent investigation.

22 ATTORNEY KOERBER:

23 There are also members of the
24 investigation teams present in the room today, but Mr.
25 Sherer will be conducting most of the questioning.

1 All members of the Mine Safety and Health Accident
2 Investigation Team and all members of the State of
3 West Virginia Accident Investigation Team
4 participating in the investigation of the Upper Big
5 Branch Mine explosion shall keep confidential all
6 information that is gathered from each witness who
7 voluntarily provides a statement until the witness
8 statements are officially released. MSHA and the
9 State of West Virginia shall keep this information
10 confidential so that the other ongoing enforcement
11 activities are not prejudiced or jeopardized by a
12 premature release of information. This
13 confidentiality requirement shall not preclude
14 investigation team members from sharing information
15 with each other or with other law enforcement
16 officials. Their participation in this interview
17 constitutes their agreement to keep this information
18 confidential.

19 Government investigators and specialists
20 have been assigned to investigate the conditions,
21 events and circumstances surrounding the fatalities
22 that occurred at the Upper Big Branch Mine-South on
23 April 5th, 2010. The investigation is being conducted
24 by MSHA under Section 103(a) of the Federal Mine
25 Health --- Federal Mine Safety and Health Act and the

1 West Virginia Office of Miners' Health, Safety and
2 Training. We appreciate your assistance in this
3 investigation.

4 You may have your personal attorney or a
5 representative present during the taking of this
6 statement if MSHA has permitted it and may consult
7 with your attorney or representative at any time. Mr.
8 Kravitz, have you come with a personal attorney or
9 representative?

10 MR. KRAVITZ:

11 No.

12 ATTORNEY FERGUSON:

13 Since this is not an adversarial
14 proceeding, formal Cross Examination will not be
15 permitted. However, you may ask clarifying questions
16 as appropriate.

17 Your identity and the content of this
18 conversation will be made public at the conclusion of
19 the interview process and may be included in the
20 public report of the accident, unless you request that
21 your identity remain confidential or your information
22 would otherwise jeopardize a potential criminal
23 investigation. If you request to keep your identity
24 confidential, we will do so to the extent permitted by
25 law.

1 That means that if a judge orders us to
2 reveal your name or if another law requires us to
3 reveal your name or if we need to reveal your name for
4 other law enforcement purposes, we may do so. Also,
5 there may be a need to use the information you provide
6 to us or other information we may ask you to provide
7 to us in the future in other investigations into and
8 hearings about the explosion. Do you understand?

9 MR. KRAVITZ:

10 Yes.

11 ATTORNEY FERGUSON:

12 Do you have any questions?

13 MR. KRAVITZ:

14 No.

15 ATTORNEY FERGUSON:

16 After the investigation is complete, MSHA
17 will issue a public report detailing the nature and
18 causes of the fatalities in hope that greater
19 awareness about the causes of accidents can reduce
20 their occurrence in the future. Information obtained
21 through witness interviews is frequently included in
22 these reports. Since we will be interviewing other
23 individuals, we request that you not discuss your
24 testimony with any person aside from a personal
25 representative or attorney.

1 A court reporter will record your
2 interview. Please speak loudly and clearly. If you
3 do not understand a question asked, please ask that it
4 be rephrased. Please answer each question as fully as
5 you can, including any information you have learned
6 from someone else.

7 We would like to thank you in advance for
8 your appearance here. We appreciate your assistance
9 in this investigation. Your cooperation is critical
10 in making the nation's mines safer.

11 MR. KRAVITZ:

12 Okay.

13 ATTORNEY FERGUSON:

14 Do you have anything before we get
15 started from anyone? Okay. Erik? Oh, I'm sorry.

16 -----

17 JEFFREY KRAVITZ, HAVING FIRST BEEN DULY SWORN,
18 TESTIFIED AS FOLLOWS:

19 -----

20 ATTORNEY FERGUSON:

21 Thank you, Ally.

22 EXAMINATION

23 BY ATTORNEY SHERER:

24 Q. Thanks for coming down this afternoon, Mr.
25 Kravitz. What was your position with MSHA on April

1 the 5th of this year?

2 A. I was acting Deputy for Technical Support.

3 Q. Okay.

4 A. Deputy, director.

5 Q. Okay. Thank you. And where was that position
6 located?

7 A. Arlington, Virginia ---

8 Q. Okay.

9 A. --- on detail.

10 Q. Okay. Thank you. How long have you been employed
11 by MSHA?

12 A. Approximately 38 years.

13 Q. Okay. What was your normal position prior to
14 being the acting director?

15 A. Chief of Scientific Development, Tech Support out
16 of Pittsburgh's Safety and Health Technology Center.

17 Q. Okay. Thank you. Prior to the explosion, did you
18 have any contact with Upper Big Branch?

19 A. No, none at all.

20 Q. Okay. When were you first made aware of the
21 explosion at Upper Big Branch?

22 A. April 5th, about 3:30 I got a call from John
23 Urosek, who had been contacted by several people on
24 the way. He was out, going out towards Missouri for
25 another investigation.

1 Q. Okay. Where were you at that time?

2 A. I think I was either at 21st floor at Education
3 Policy and Development or on the 23rd floor in Tech
4 Support.

5 Q. In Arlington?

6 A. Yeah.

7 Q. Okay. Thank you. Did you travel to Upper Big
8 Branch?

9 A. Yes, I did.

10 Q. When did you leave Arlington?

11 A. It was somewhere either the late night of the 5th
12 or the early morning. It was around midnight. I
13 traveled down with Assistant Secretary Main.

14 Q. Okay. And about what time did you arrive at Upper
15 Big Branch?

16 A. Approximately 8:30 in the morning ---

17 Q. Okay.

18 A. --- on the 6th.

19 Q. Okay. Starting with when you arrived on the
20 property, would you mind giving us an overview of what
21 you did with the ---

22 A. MSHA?

23 Q. --- rescue and then the recovery effort?

24 A. Well, basically arrived there with Assistant
25 Secretary, and John Urosek and Ray McKinney met us.

1 They gave us a briefing, a thumbnail briefing, what
2 was happening. Joe was kind of in a hurry because
3 there was a press conference that was taking place,
4 and he already had talked to Kevin Stricklin about
5 trying to get over there.

6 So we got a quick thumbnail sketch of what was
7 happening. And teams --- I think teams were
8 underground at that time. Maybe not. But basically,
9 that's what we did.

10 Then John Urosek and I went over to the MSHA
11 command center. We tried to get ahold of any
12 surveyor. Took us a little while to find somebody.
13 We finally did, and then we went up on top the
14 mountain to locate a place where we could install our
15 seismic system. We located a place for the system,
16 came back down the mountain, met the guys from
17 Pittsburgh Safety and Health Technology Center, John
18 Gibson, Ed Chuta. And there were several people there
19 from the MSHA Mine Emergency Unit, MEU.

20 And we gathered up as many people as we could that
21 were available and then went back up on top of the
22 mountain with the seismic system, installed the
23 system, got it working. Everything worked fine. And
24 from then on it was pretty much a matter of keeping
25 the system running, changing out batteries,

1 communicating what was happening up there, and then
2 basically coming down after very long periods of time
3 spending on top of the mountain, over 12-hour shifts
4 that we were putting in.

5 Q. Okay.

6 A. Mr. Main and I and Mr. Ponceroff, Bill Ponceroff,
7 were staying at the academy. Several other people,
8 John Urosek and several other people were staying at
9 the Holiday Inn at the Beckley Exit.

10 Q. Okay. So the primary thing you did during the
11 rescue and recovery effort was --- or the rescue
12 effort, I guess, was to monitor the seismic ---

13 A. Right.

14 Q. --- system?

15 A. Uh-huh (yes).

16 Q. Did you pick up any seismic signals from within
17 the mine?

18 A. Not that we could ascertain. The signals that we
19 received were mostly noise, you know, probably the
20 drilling trucks along the rode. We were very close to
21 the main road that was going over to the drilling hole
22 area.

23 Q. Uh-huh (yes).

24 A. And eventually the area where the refuge shelter
25 or refuge alternative was, that's an area that we

1 focused in on with the seismic system, ---

2 Q. Sure.

3 A. --- you know.

4 Q. Do you recall if there were any significant bumps
5 coming from the mine or thumps or whatever you want to
6 call it?

7 A. Couldn't really tell with all the noise going on.
8 You know, what we hoped to do ---. It wasn't wasted
9 effort, you know? What we try to do is, you know,
10 when the drills go down and when noise comes down to
11 low levels, then we try to, you know, listen more
12 intently than when there's a lot of other types of
13 noise. So you know, during that whole week, you know,
14 we had people watching the seismographs all the time
15 and really didn't pick up any significant signals and
16 couldn't tell if nay mine bumps, per se.

17 Q. Okay. Thank you. And when did you guys stop
18 monitoring for seismic signals?

19 A. Well, we were still monitoring when Mr. Main and I
20 left, which was either Friday night or Saturday. I
21 think it was Friday night. And I drove him back down
22 to where his home is located, and then I went back
23 towards Arlington.

24 Q. Okay.

25 A. Uh-huh (yes).

1 Q. Have you had any contact with Upper Big Branch
2 since that time?

3 A. No, not one iota. No.

4 Q. Okay. Thank you. Did you attend any meetings
5 during that time period?

6 A. Not formally. Once in a while in the command
7 center it'd be some informal meetings off to the side.
8 The main meetings were in the formal command center,
9 which was operated by the company. It was up in one
10 of the company offices, but when I'd come back down
11 the mountain, I'd come back to the MSHA command center
12 or to the communication --- they call it the peer, the
13 public evaluation trailer that basically held our
14 communications equipment.

15 Q. Okay. When John Urosek called you on April the
16 5th, what did he tell you?

17 A. Basically he had been notified by a call that
18 something had happened and it still wasn't quite
19 clear, you know, what had happened. Also that we'd
20 probably have to be setting up a seismic, which I
21 assumed that we had a major problem.

22 Q. Okay. What's the purpose of the seismic system?

23 A. Seismic system is designed to locate trapped
24 miners. They can pound on surfaces like the roof
25 bolts in the mine.

1 Q. Okay. Why did you have to be on top of the
2 mountain to set that up?

3 A. Well, basically you want to get on top of where
4 someone would be pounding back, so you ---. Basically
5 the signals travel upward. We install our sensors
6 above the mine and the sensors pick up the vibrations
7 from, you know, possibly anyone pounding in the mine.

8 Q. Okay. Thank you.

9 A. Uh-huh (yes).

10 Q. Did you do anything else other than the seismic
11 system?

12 A. No, just pretty much, you know, what I was down
13 there for, except for helping out Mr. Main with
14 anything he needed and pretty much --- and he was
15 being supplied by support by Kohls, Kevin Stricklin,
16 our office information people, so he was doing pretty
17 good by himself.

18 MR. SHERER:

19 Okay. Thank you. That's all the
20 questions I've got for right now.

21 MR. FARLEY:

22 I have none.

23 MS. SPENCE:

24 I have none. Thank you.

25 MR. SHERER:

1 Okay.

2 ATTORNEY FERGUSON:

3 Anyone else? On behalf of MSHA and the
4 Office of Miners' Health, Safety and Training we want
5 to thank you for appearing and answering questions
6 today. Your cooperation is very important to the
7 investigation as we work to determine the cause of the
8 accident.

9 We request that you not discuss your
10 testimony with any person aside from a personal
11 representative. After questioning other witnesses, we
12 may call you if we have any follow-up questions.

13 If at any time you have additional
14 information regarding the accident you would like to
15 provide to us, please contact Norman Page. If you
16 wish, you may now go back over any answer you've given
17 or make a statement you would like to make.

18 A. No, no additional information at this time.

19 ATTORNEY FERGUSON:

20 Thank you.

21 A. Uh-huh (yes), sure.

22 * * * * *

23 STATEMENT UNDER OATH CONCLUDED AT 4:11 P.M.

24 * * * * *

25

1 STATE OF WEST VIRGINIA)

2

3

4

CERTIFICATE

5

I, Alison Salyards, a Notary Public in and

6

for the State of West Virginia, do hereby certify:

7

That the witness whose testimony appears in

8

the foregoing deposition, was duly sworn by me on said

9

date and that the transcribed deposition of said

10

witness is a true record of the testimony given by

11

said witness;

12

That the proceeding is herein recorded fully

13

and accurately;

14

That I am neither attorney nor counsel for,

15

nor related to any of the parties to the action in

16

which these depositions were taken, and further that I

17

am not a relative of any attorney or counsel employed

18

by the parties hereto, or financially interested in

19

this action.

20



21

22

Alison Salyards

23

24

25

A	appropriate 8:16	back 13:16 13:21	CERTIFICATE 4:10 19:4	7:5,10,18 8:21,24
academy 1:9 14:7	Approxim... 11:12	15:21,22	certify 19:6	confiden... 7:13
accident 6:7 7:1,3 8:20 18:8,14	12:16	16:10,11	certifying 1:27	constitutes 7:17
accidents 9:19	April 7:23	basically 12:24 13:8	changing 13:25	consult 8:6
accurately 19:13	10:25	14:2 16:13	Charleston 2:22	cont 3:1
Act 7:25	11:22	16:17 17:3	Chief 11:15	contact 11:18 16:1
acting 11:2 11:14	16:15	17:4	Chuta 13:18	18:15
action 19:15 19:19	area 14:22	batteries 13:25	circumst... 7:21	contacted 11:23
activities 7:11	14:24,25	Beaver 1:10	clarifying 8:15	content 8:17
additional 18:13,18	Arlington 2:8 3:6	Beckley 14:9	clear 16:19	conversa... 8:18
Administ... 3:4 6:8	11:7 12:5	beginning 1:11	clearly 10:2	cooperation 10:9 18:6
advance 10:7	12:10	behalf 18:3	close 14:20	counsel 19:14,17
adversarial 8:13	15:23	Beth 3:8 6:20	CLOSING 4:8	court 1:7 10:1
afternoon 10:24	arrive 12:14	Big 7:4,22	come 8:8 16:10,11	Creek 3:11
agency 1:27 6:8	arrived 12:19,24	11:18,21	comes 15:10	criminal 8:22
agreement 7:17	ascertain 14:18	12:7,15	coming 10:24 14:2 15:5	critical 10:9
ahold 13:11	aside 9:24 18:10	16:1	command 13:11 16:6 16:8,11	Cross 8:14
Airport 1:9	asked 10:3	Bill 14:6	communic... 14:1	C-137 1:10
Alison 1:6 19:5	assigned 7:20	bolts 16:25	communic... 16:12	D
Ally 10:21	assistance 8:2 10:8	Boulevard 2:6 3:5	communic... 16:14	D 4:1 6:1
alternative 14:25	Assistant 12:13,24	Branch 7:5 7:22 11:18	company 16:9 16:10	Dana 2:3 6:4
Alum 3:11	assumed 16:21	11:21 12:8	complete 9:16	date 19:9
answer 10:4 18:16	attend 16:4	12:15 16:1	CONCLUDED 18:23	Department 2:4 6:6,9
answering 18:5	attorney 4:4 4:9 6:3,22	briefing 13:1,1	conclusion 8:18	deposition 19:8,9
appearance 6:11 10:8	8:4,7,8,12	bumps 15:4 15:16	conditions 7:20	depositions 19:16
appearing 18:5	9:11,15,25	C	conducted 7:23	Deputy 11:2 11:4
appears 19:7	10:13,20	C 2:1 3:1 6:1	conducting 6:25	DESCRIPTION 5:3
appreciate 8:2 10:8	10:23 18:2	call 11:22 15:6 16:12	conference 13:3	designed 16:23
	18:19	16:17	confiden...	detail 11:9
	19:14,17	18:12		detailing 9:17
	authoriz... 1:26	called 16:15		determine
	available 13:21	cause 18:7		
	aware 11:20	causes 9:18 9:19		
	awareness 9:19	center 11:16 13:11,17 16:7,8,11		
	B			

18:7	10:22	19:12	hoped 15:8	7:4,14,23
Development	EXHIBIT 5:1	further	hurry 13:2	8:3,23
11:15 12:3	Exit 14:9	19:16		9:16 10:9
director	explosion	future 9:7	I	11:25 18:7
11:4,14	7:5 9:8	9:20	IDENTIFIED	investig...
discuss 9:23	11:17,21		5:3	9:7
18:9	extent 8:24	G	identity	investig...
doing 17:16		G 6:1	8:17,21,23	6:7
drilling	F	gathered 7:6	important	investig...
14:20,21	Farley 2:18	13:20	18:6	7:19
drills 15:10	6:13,14	Gibson 13:18	included	iota 16:3
drove 15:21	17:21	given 18:16	8:19 9:21	issue 9:17
duly 10:17	fatalities	19:10	including	it'd 16:7
19:8	7:21 9:18	giving 12:20	10:5	
	Federal 7:24	go 15:10	independent	J
E	7:25	18:16	3:9 6:21	JEFFREY 1:3
E 2:1,1 3:1	Ferguson 2:3	going 11:24	individuals	4:5 10:17
3:1 4:1	4:4,9 6:3	14:21 15:7	9:23	jeopardize
6:1,1	6:4 8:12	good 17:17	informal	8:22
early 12:12	9:11,15	Government	16:7	jeopardized
East 2:21	10:13,20	7:19	information	7:11
Ed 13:18	18:2,19	Governor's	7:6,9,12	Joe 13:2
Education	finally	6:20	7:14,17	John 2:10
12:2	13:13	greater 9:18	8:21 9:5,6	6:17 11:22
effort 12:23	financially	guess 14:12	9:20 10:5	12:25
14:11,12	19:18	guys 13:16	17:16	13:10,17
15:9	find 13:12	15:17	18:14,18	14:8 16:15
either 12:2	fine 13:23		Inn 14:9	judge 9:1
12:11	first 10:17	H	install	
15:20	11:20	happened	13:14 17:5	K
Emergency	floor 2:7	16:18,19	installed	keep 7:5,9
13:19	12:2,3	happening	13:22	7:17 8:23
employed	focused 15:1	13:2,7	Instructor	keeping
11:10	FOLLOWS	14:1	2:11	13:24
19:17	10:18	Health 1:9	intently	Kevin 13:4
enforcement	follow-up	2:13,20	15:12	17:15
7:10,15	18:12	3:4 6:8,15	interested	kind 13:2
9:4	foregoing	6:18 7:1	19:18	know 14:19
equipment	19:8	7:25,25	interview	15:3,8,9,9
16:14	formal 8:14	8:1 11:16	7:16 8:19	15:11,13
Erik 3:3 6:7	16:8	13:17 18:4	10:2	15:13
10:15	formally	hearings 9:8	intervie...	16:19 17:7
ESQUIRE 2:3	16:6	held 16:13	9:22	17:12
evaluation	frequently	helping	interviews	KOERBER 6:22
16:13	9:21	17:13	9:21	Kohls 17:15
events 7:21	Friday 15:20	hereto 19:18	investigate	Kravitz 1:3
eventually	15:21	hole 14:21	7:20	4:5 8:8,10
14:24	Frontier	Holiday 14:9	investig...	9:9,13
Examination	3:10	home 15:22	3:9 6:21	10:11,17
4:6 8:14	fully 10:4	hope 9:18	6:24 7:2,3	10:25

L	15:16	Norman 18:15	12:20	potential
L 2:3	16:25 17:6	Notary 1:7	O'Brien 2:10	8:22
Labor 2:4	17:7	19:5	6:16,17	pound 16:24
6:6,9	miners 2:12	Notice 1:6	P	pounding
late 12:11	2:19 6:15	notified	P 2:1,1 3:1	17:4,7
law 7:15	6:18 8:1	16:17	3:1 6:1	preclude
8:25 9:2,4	16:24 18:4	NUMBER 5:3	Page 5:1,2	7:13
learned 10:5	mines 10:10	O	18:15	prejudiced
leave 12:10	Mine-South	O 6:1	particip...	7:11
left 15:20	7:22	OATH 1:1	7:4	premature
levels 15:11	Missouri	18:23	particip...	7:12
listen 15:11	11:24	obtained	7:16	present 6:9
little 13:12	Monday 1:10	9:20	parties	6:24 8:5
locate 13:14	monitor	occurred	19:15,18	press 13:3
16:23	14:12	7:22	peer 16:12	pretty 13:24
located 11:6	monitoring	occurrence	people 6:10	17:12,14
13:15	15:18,19	9:20	11:23	17:16
15:22	morning	OFFERED 5:4	13:18,20	primary
long 11:10	12:12,16	office 2:5	14:7,8	14:10
14:2	mountain	2:12,14,19	15:14	prior 11:13
lot 15:12	13:14,16	6:5,15,18	17:16	11:17
loudly 10:2	13:22 14:3	8:1 17:16	period 16:5	probably
low 15:11	16:11 17:2	18:4	periods 14:2	14:19
M	MSHA 7:8,24	offices	permitted	16:20
main 12:13	8:6 9:16	16:10	8:6,15,24	problem
14:6,21	10:25	officially	person 9:24	16:21
15:19 16:8	11:11	7:8	18:10	proceeding
17:13	12:22	officials	personal 8:4	8:14 19:12
major 16:21	13:10,19	7:16	8:8 9:24	process 8:19
making 10:10	16:11 18:3	Oh 10:15	18:10	prohibited
matter 13:24	N	Okay 10:12	pick 14:16	1:26
McKinney	N 2:1 3:1	10:15 11:3	15:15 17:6	property
12:25	4:1 6:1	11:5,8,10	Pittsburgh	12:20
means 9:1	name 6:4 9:2	11:13,17	13:17	provide 9:5
meetings	9:3,3	11:20 12:1	Pittsbur...	9:6 18:15
16:4,7,8	National 1:8	12:7,14,17	11:16	provides 7:7
members 6:23	nation's	12:19 14:5	place 13:3	public 1:7
7:1,2,14	10:10	14:10	13:14,15	8:18,20
met 12:25	nature 9:17	15:17,24	please 10:2	9:17 16:13
13:16	nay 15:16	16:4,15,22	10:3,4	19:5
MEU 13:19	need 9:3,5	17:1,8,19	18:15	purpose
midnight	needed 17:14	18:1	Policy 12:3	16:22
12:12	neither	Once 16:6	Ponceroff	purposes 9:4
mind 12:20	19:14	ongoing 7:10	14:6,6	pursuant 1:6
mine 1:8 3:4	night 12:11	OPENING 4:3	position	putting 14:4
6:7 7:1,5	15:20,21	operated	10:25 11:5	p.m 1:11
7:24,25	noise 14:19	16:9	11:13	18:23
13:19	15:7,10,13	orders 9:1	possibly	Q
14:17 15:5	normal 11:13	overview	17:7	question

10:3,4	reproduc...	17:10	18:17,23	tell 15:7,16
questioning	1:25	seismogr...	statements	16:16
6:25 18:11	request 8:20	15:14	7:8	Terry 2:18
questions	8:23 9:23	sensors 17:5	States 6:6,9	6:14
8:15 9:12	18:9	17:6	staying 14:7	TESTIFIED
17:20 18:5	requirement	September	14:8	10:18
18:12	7:13	1:11 6:5	Stewart 2:15	testimony
quick 13:6	requires 9:2	set 17:2	stop 15:17	9:24 18:10
quite 16:18	rescue 12:23	setting	Street 2:15	19:7,10
	14:11,11	16:20	2:21	thank 10:7
	reveal 9:2,3	sharing 7:14	Stricklin	10:21 11:5
R	9:3	shelter	13:4 17:15	11:10,17
R 2:1 3:1	right 14:13	14:24	supplied	12:7 15:17
6:1	17:20	Sherer 3:3	17:15	16:4 17:8
Ray 12:25	road 1:9	4:7 6:7,25	support 11:2	17:19,24
really 15:7	3:10 14:21	10:23	11:15 12:4	18:5,20
15:15	rode 14:20	17:18,25	17:15	Thanks 10:24
recall 15:4	roof 16:24	shifts 14:3	sure 15:2	thing 14:10
received	room 1:10	side 16:7	18:21	think 12:2
14:19	6:24	signals	surfaces	13:7 15:21
record 6:12	running	14:16,18	16:24	thumbnail
10:1 19:10	13:25	15:15,18	surrounding	13:1,6
recorded		17:5	7:21	thumps 15:5
19:12	S	significant	surveyor	time 6:12
recovery	S 2:1 3:1	15:4,15	13:12	8:7 12:1
12:23	6:1	sketch 13:6	sworn 10:17	12:14 13:8
14:11	safer 10:10	Solicitor	19:8	14:2 15:14
reduce 9:19	Safety 1:9	2:5 6:6	system 13:15	16:2,5
refuge 14:24	2:11,13,20	somebody	13:15,22	18:13,18
14:25	3:4 6:8,15	13:12	13:23,25	today 6:4,24
regarding	6:18 7:1	sorry 10:15	14:14 15:1	18:6
18:14	7:25 8:1	speak 10:2	16:22,23	top 13:13,21
Region 2:14	11:16	specialists	17:11	14:3 17:1
Regional 2:5	13:17 18:4	7:19		17:3
related	Salyards 1:6	Spence 3:8	T	trailer
19:15	19:5	6:19,20	T 2:10	16:13
relative	Saturday	17:23	taken 1:6	Training
19:17	15:20	spending	19:16	2:13,20
release 7:12	Scientific	14:3	talked 13:4	6:15,18
released 7:8	11:15	started	team 7:2,3	8:2 18:4
remain 8:21	se 15:16	10:15	7:14	transcribed
rephrased	Secretary	Starting	teams 6:24	19:9
10:4	12:13,25	12:19	13:7,7	transcript
report 8:20	Section 7:24	state 1:8	Tech 11:15	1:25
9:17	seismic	6:10,11	12:3	trapped
reporter 1:7	13:15,22	7:2,9 19:1	Technical	16:23
10:1	14:12,16	19:6	11:2	travel 12:7
reports 9:22	15:1,18	statement	Technology	17:5
represen...	16:20,22	1:1 4:3,8	11:16	traveled
8:5,7,9	16:23	7:7 8:6	13:17	12:13
9:25 18:11				

trucks 14:20	wasted 15:8	<hr/> 2 <hr/>	
true 19:10	watching	2 2:14	
try 15:9,11	15:14	20 1:11	
trying 13:5	way 11:24	20th 6:5	
types 15:12	week 15:13	2010 1:11	
<hr/> U <hr/>	Welch 2:14	6:5 7:23	
Uh-huh 14:15	2:16	21st 12:2	
14:23	went 13:10	22nd 2:7	
15:25 17:9	13:13,21	22209-2247	
18:21	15:22	2:8	
underground	West 1:8,10	22209-3939	
13:8	2:7,12,19	3:6	
understand	3:9 6:10	23rd 12:3	
9:8 10:3	6:14,17	24801 2:16	
Unit 13:19	7:3,9 8:1	25003 3:11	
United 6:6,9	19:1,6	25311 2:22	
Upper 7:4,22	Wilson 2:6	<hr/> 3 <hr/>	
11:18,21	3:5	3:30 11:22	
12:7,14	wish 18:16	3:57 1:11	
16:1	witness 4:5	38 11:12	
upward 17:5	7:6,7 9:21	<hr/> 4 <hr/>	
Urosek 11:23	19:7,10,11	4:11 18:23	
12:25	witnesses	<hr/> 5 <hr/>	
13:10 14:8	18:11	5th 7:23	
16:15	work 18:7	11:1,22	
use 9:5	worked 13:23	12:11	
U.S 2:4	working	16:16	
<hr/> V <hr/>	13:23	58 3:10	
VA 2:8 3:6	WV 2:16,22	<hr/> 6 <hr/>	
vibrations	3:11	6 4:4	
17:6	<hr/> X <hr/>	6th 12:18	
Virginia 1:8	X 4:1	<hr/> 8 <hr/>	
1:10 2:12	<hr/> Y <hr/>	8:30 12:16	
2:19 3:9	Yeah 12:6	819 2:15	
6:10,14,17	year 11:1		
7:3,9 8:1	years 11:12		
11:7 19:1	<hr/> 1 <hr/>		
19:6	10 4:4,7		
voluntarily	103(a) 7:24		
7:7	1100 2:6 3:5		
<hr/> W <hr/>	12-hour 14:3		
want 15:5	1301 1:9		
17:3 18:4	1615 2:21		
Washington	17 4:7		
2:21	18 4:9		
wasn't 15:8	19 4:10		
16:18			