

SoCalGas-80

**Examination Under Oath of Danny Walzel and James Kopecky
(Aug. 8, 2018)**

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BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE
STATE OF CALIFORNIA

Pre-Formal Inquiry into California Gas
Management, Practices and Procedures
Related To The Aliso Canyon Incident
in October, 2015.

EXAMINATION UNDER OATH OF DANNY WALZEL and JAMES KOPECKY

CONFIDENTIAL

REPORTER'S TRANSCRIPT
San Francisco, California
August 8, 2018
Pages 1 - 152

Reported by: Doris Huaman, CSR No. 10538
Andrea Ross, CSR No. 7896
Shannon Ross, CSR No. 8916

PUBLIC UTILITIES COMMISSION, STATE OF CALIFORNIA
SAN FRANCISCO, CALIFORNIA

SoCalGas-80.0001

1 **BEFORE THE PUBLIC UTILITIES COMMISSION**
2 **OF THE**
3 **STATE OF CALIFORNIA**

4 IN THE MATTER OF THE PRE-FORMAL
5 INQUIRY INTO CALIFORNIA GAS MANAGEMENT,
6 PRACTICES AND PROCEDURES RELATED TO THE
7 ALISO CANYON INCIDENT IN OCTOBER, 2015

8 **Appearances:**

9 (Examination Under Oath, August 8, 2018)

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1 BE IT REMEMBERED THAT, by Consent of
2 the Witness, and on Wednesday, August 8,
3 2018, commencing at the hour of 10:10 a.m.
4 thereof, at the offices of the CALIFORNIA
5 PUBLIC UTILITIES COMMISSION, 505 Van Ness
6 Avenue, Room 4300, San Francisco, California
7 94102, before ANDREA L. ROSS, CSR No. 7896;
8 SHANNON M. ROSS, CSR No. 8916; and DORIS
9 HUAMAN, CSR No. 10538, personally appeared

10 **(DANNY WALZEL) ,**

11 called as a witness herein, who, being first
12 duly sworn, was thereupon examined and
13 interrogated as hereinafter set forth, and

14 **(JAMES KOPECKY) ,**

15 called as a witness herein, who, being first
16 duly sworn, was thereupon examined and
17 interrogated as hereinafter set forth

18 * * * * *

19 EXAMINATION

20 BY MR. GRUEN:

21 Q For starters, why don't we go
22 around the room and just identify your name
23 and spell your name, please, for the record.
24 We'll ask everyone to do it and then your
25 title and then the name of the entity who you
26 work for.

27 My name is Darryl Gruen,
28 D-a-r-r-y-l, G-r-u-e-n. I'm an attorney for

1 the Safety and Enforcement Division of the
2 California Public Utilities Commission.

3 MS. ROSE: My name is Julietta Rose,
4 J-u-l-i-e-t-t-a, R-o-s-e. I am a law clerk
5 for the legal division.

6 MR. BRUNO: My name is Kenneth Bruno.
7 I'm the program manager of gas safety branch,
8 Safety and Enforcement Division here at the
9 California Public Utilities Commission.

10 MR. SHER: Nicholas Sher, S-h-e-r, with
11 the Safety and Enforcement Division,
12 attorney.

13 MR. HOLTER: Randy Holter, R-a-n-d-y,
14 H-o-l-t-e-r. I work for the Safety and
15 Enforcement Division. I'm a senior utilities
16 engineer specialist.

17 MS. PENNINGTON-HILL: Kaitlyn
18 Pennington-Hill, K-a-i-t-l-y-n,
19 P-e-n-n-i-n-g-t-o-n hyphen H-i-l-l, attorney
20 for Halliburton.

21 MR. HELSLEY: Michael Helsley,
22 M-i-c-h-a-e-l, H-e-l-s-l-e-y, attorney at
23 Wanger Jones Helsley and an attorney for
24 Halliburton and Boots & Coots.

25 WITNESS KOPECKY: A James Kopecky,
26 K-o-p-e-c-k-y. I'm a well control specialist
27 for Halliburton, Boots & Coots.

28 WITNESS WALZEL: A Danny Walzel,

1 D-a-n-n-y, W-a-l-z-e-l, well patrol engineer
2 for Boots & Coots, Halliburton.

3 MR. GRUEN: Q Mr. Kopecky and
4 Mr. Walzel, thank you very much for being
5 here today. We appreciate that. We
6 understand that you're here voluntarily and
7 you're here with your counsel voluntarily. I
8 just -- I spoke with counsel off the record
9 and just wanted to clarify for the record, we
10 understand that what we discuss today, just
11 the actual points of discussion today, that
12 there's an agreement to keep that, keep the
13 points for the discussion confidential.

14 Counsel, did I capture that right?

15 MR. HELSLEY: Yeah, that's fine. I
16 agree with that.

17 MR. GRUEN: Okay.

18 MR. HELSLEY: Also, I just want to let
19 everyone know that SoCalGas, they were --
20 they helped bring the witnesses here today
21 and helped facilitate this. Just wanted to
22 let -- I just wanted to put that on the
23 record.

24 MR. GRUEN: Q Appreciate that. Thank
25 you. Let's see. With that, just a couple of
26 points of clarification before I turn it over
27 to Ms. Rose.

28 Gentlemen, Mr. Kopecky and

1 Mr. Walzel, do you have any concerns with
2 sharing information related to your work at
3 Aliso Canyon on well access 25 today?

4 WITNESS KOPECKY: A No.

5 WITNESS WALZEL: A No.

6 Q Do you have any interest in sharing
7 the information, sharing information related
8 to your work, on well access 25 today,
9 anything that you want to share with us?

10 WITNESS WALZEL: A What do you mean by
11 interest?

12 Q Is there anything that you want to
13 tell us from your work, related to your work?

14 WITNESS WALZEL: A Just your
15 questions.

16 WITNESS KOPECKY: A Yeah.

17 Q Okay, we'll move forward with the
18 questions absolutely, okay. With that,
19 Ms. Rose is going to ask you a little bit
20 about your background related to why you are
21 qualified to do what you did on well access
22 25. So with that, go ahead, Ms. Rose.

23 MS. ROSE: Thank you.

24 EXAMINATION

25 BY MS. ROSE:

26 Q So how would you describe what you
27 do in general at your job?

28 WITNESS KOPECKY: A You want to go

1 first, Danny?

2 Q Or individually if it's quite
3 different.

4 WITNESS WALZEL: A Yes, you know,
5 customers call us when they're having well
6 control issues and, you know, anything from
7 underground blow-outs to surface blow-outs to
8 circulating out of keg, you know, pressure
9 control, call us out to resolve the issue.

10 WITNESS KOPECKY: A As well control
11 specialist, I work under a broad direction of
12 the senior well control specialist typically
13 on any well control event, the types that
14 Danny mentioned.

15 Q Okay. So more kind of individual
16 issues versus just well interventions?

17 WITNESS KOPECKY: A We also do well
18 interventions.

19 Q Okay, thank you. How did you --
20 how did you become a well control engineer,
21 well control specialist? What kind of
22 training did you get?

23 WITNESS KOPECKY: A I have a -- prior
24 to joining Boots & Coots in 2004, I had a
25 20-year surface wellhead equipment
26 background.

27 Q Okay.

28 A And I work for Boots & Coots in

1 different capacities throughout the world on
2 different well control events. I joined the
3 well control group, I believe, five years ago
4 or six as a well control specialist.

5 WITNESS WALZEL: A I started at Boots
6 & Coots in 2002. I was hired after
7 graduating Texas A&M University with a
8 petroleum engineering degree and, you know,
9 and since then, I've worked in just about
10 every aspect of what Boots & Coots does.
11 I've been doing it for 16 years.

12 Q Okay. So you've worked there
13 before it was bought by Halliburton?

14 WITNESS KOPECKY: A Yes.

15 WITNESS WALZEL: A Yes.

16 Q Can you describe, if at all, how
17 the company has changed since Halliburton
18 acquired it?

19 WITNESS KOPECKY: A Pertaining to?

20 Q Your experience as an employee,
21 management, direction, just -- if nothing
22 comes to mind, then that's fine too.

23 A Well, there certainly have been
24 changes I can't really grasp, but I think
25 it's just, you know, it's being part of a
26 larger company.

27 WITNESS WALZEL: A Yeah, I would say
28 it's, you know, our day-to-day work we do in

1 the field hasn't changed.

2 Q Okay.

3 WITNESS KOPECKY: A I agree.

4 Q Okay, thank you. So you obviously
5 specialize in well control. Do you work on a
6 lot of gas well leaks in particular?

7 WITNESS WALZEL: A Yes.

8 Q About how many would you say you've
9 worked on in the past year?

10 WITNESS KOPECKY: A In the past year?

11 Q Yes, about, yeah --

12 A Well --

13 Q Yeah --

14 (Crosstalk.)

15 WITNESS KOPECKY: A Probably four.

16 Q Okay.

17 WITNESS WALZEL: A I've worked on one
18 gas blowout this year.

19 Q Okay. And where were they?

20 WITNESS KOPECKY: A Columbia.

21 WITNESS WALZEL: A Columbia.

22 Q Okay.

23 WITNESS KOPECKY: A Columbia,
24 Trinidad-Tobago, and can't recall. South
25 Texas.

26 Q Okay.

27 A And I don't recall if France was in
28 this year or just the end --

1 Q Okay, but --

2 A -- the end of last year --

3 Q Okay, but recently though?

4 WITNESS WALZEL: A Oh, you mean like
5 this calendar year?

6 Q Yeah or -- no, just the past year
7 give or take, you know.

8 A Trying to think of which ones I did
9 at the end of last year. Yeah, I can't
10 recall any gas leaks towards the end of last
11 year.

12 Q And how many of them, if any, were
13 like Aliso, like SS-25, maybe not in terms of
14 the longevity of the leak but, you know, the
15 way the well was.

16 WITNESS WALZEL: A Columbia was just
17 like it.

18 Q Just like it?

19 A Yes.

20 Q Okay. How so?

21 (Crosstalk.)

22 THE REPORTER: Excuse me, gentlemen, we
23 need to do this one at a time, please. Thank
24 you.

25 WITNESS KOPECKY: A As Danny was
26 saying and I interrupted him, it was a broach
27 to the surface.

28 MS. ROSE: Q Okay. Did it have a

1 similar kind of underlying geology as well?

2 WITNESS KOPECKY: A No.

3 WITNESS WALZEL: A No.

4 Q No, okay. Have you worked on many
5 that had a similar underlying geology?

6 WITNESS KOPECKY: A Let me -- I'm
7 going to clarify. When I said no about the
8 geology, it was not a storage well.

9 Q Okay.

10 A Okay.

11 Q So they are actually just
12 extracting the gas for the first time?

13 WITNESS KOPECKY: A I think the well
14 was temporarily abandoned in Columbia, wasn't
15 it?

16 Q Okay.

17 WITNESS WALZEL: A They weren't
18 producing it at the time.

19 Q Okay. So going back to your
20 background a little bit, would you say that
21 you have some expertise at killing leaky
22 wells?

23 WITNESS WALZEL: A Yes.

24 WITNESS KOPECKY: A Yes.

25 Q And what in particular makes --
26 kind of gives you that expertise versus, say,
27 someone that manages a field?

28 WITNESS WALZEL: A I would say what --

1 just the -- a lot of what we do is, you know,
2 you gain the experience just from doing it.

3 Q Okay.

4 A We've learned from, you know, guys
5 that worked at Reddit Air for 30, 40 years,
6 you know, 50 years plus experience.

7 Q Yeah.

8 A You know, with our -- obviously the
9 petroleum background, engineering background,
10 and then learning it in the field.

11 Q Okay.

12 WITNESS KOPECKY: A And, yeah, I'd add
13 that's what differentiates us is quality of
14 our engineers.

15 Q The quality in terms of kind of
16 experience?

17 A Experience, yes.

18 Q Okay. Do you get specialized
19 training? Is it more that you just kind of
20 going along to jobs and eventually pick up
21 more understanding or anything?

22 A Well, and again, I'm not an
23 engineer but we do attend types of training,
24 a lot of it required. But you gain the most
25 experience not in the classroom but in the
26 field.

27 Q Okay.

28 WITNESS WALZEL: A Yeah.

1 Q Like working with people that are
2 more senior or just confronting your
3 problems?

4 A All the aboves, working with people
5 that have done it and going out and actually
6 doing it.

7 Q Thanks. And why would you say that
8 you and your colleagues that went to Aliso
9 Canyon for SS-25 were qualified to handle
10 that particular gas leak?

11 A Just the experience of having done
12 it before.

13 WITNESS KOPECKY: A I agree.

14 Q Have you ever testified in court
15 as, like, an expert witness or anything like
16 that?

17 WITNESS KOPECKY: A No.

18 WITNESS WALZEL: A No.

19 Q So for each of you, can you
20 describe the last well that you worked on,
21 kind of like what kind of well, where was it,
22 how did you make a decision about how to deal
23 with it, you know, what happened when you got
24 there, that kind of thing.

25 WITNESS WALZEL: A Well, the last one
26 I was involved with was in Columbia. It had
27 broke the surface. There was gas and oil,
28 water coming up 200 foot from the well. And

1 we -- it ended up -- it ended up bridging and
2 we got a snubbing unit and went in and set
3 cement plugs and --

4 Q I'm sorry, could you --

5 A So bridging with -- essentially the
6 well plugged itself off on its own.

7 Q Okay.

8 A It was making a lot of sand.

9 Q Okay.

10 A And plugged up with sand.

11 Q Okay. And how soon was that after
12 you got there?

13 A I don't know the exact date how
14 many days --

15 Q Yeah.

16 A -- but within a week, week and a
17 half it bridged when we started flowing it to
18 relieve the pressure.

19 Q Okay. And when you showed up,
20 what -- like, what did you do? Like, did you
21 ask for information, did you go survey the
22 well? Like, what's your thought process when
23 you got to that well?

24 A Well, they had provided drilling
25 records, you know, kind of a -- yeah, what
26 they were, you know, what they were planning
27 on doing, which was, I believe, put P and A
28 in the well, plug and abandon. We did a site

1 survey and we ordered out equipment to pumps
2 and, you know, kill fluids,
3 installed additional --

4 (Crosstalk.)

5 THE REPORTER: Excuse me, folks, I
6 can't take you both down at the same time.
7 Thank you.

8 WITNESS WALZEL: A Installed
9 additional valves on the wellhead, ordered a
10 snubbing unit from the US. And then as we
11 were just getting ready to rig up the
12 snubbing unit is when the well bridged. So
13 we used the snubbing unit to go in and clean
14 it out and set cement plugs.

15 MS. ROSE: Q Okay. And did you -- is
16 there kind of a -- when you get to the well,
17 and you say, okay, this is a well, it's
18 leaking, you know, it's a certain kind of
19 well, is there any kind of like formula that
20 you use or is it more just intuition? Like,
21 how do you decide what you're going to do?

22 WITNESS WALZEL: A Well, I mean, you
23 know, there's the formulas to figure out kill
24 fluids and volumes. And then a lot of it
25 is -- and we also ordered out wireline
26 equipment, you know. A lot of it is running
27 logs to, diagnostic logs, to find flow paths,
28 holes.

1 Q When you say diagnostic logs, are
2 those like past records or future --

3 A No, yeah, we get out there and run
4 them.

5 Q Okay.

6 A Typically it would be moist
7 temperature logs, gyros, spinner logs, you
8 know, those would be the main --

9 Q Okay.

10 A -- the main three that we run.

11 Q Okay. And then based on the
12 results of those, you decide --

13 A Right.

14 Q -- how you're going to approach the
15 well. Okay. Do you find it useful to talk
16 to the people that actually work on the field
17 who haven't dealt with the well in the past
18 or not so much?

19 A Yes.

20 Q Yes, okay. And what kind of
21 information would you ask them?

22 A You know, just drilling, you know,
23 well history --

24 WITNESS KOPECKY: A Formation
25 pressure.

26 WITNESS WALZEL: A Formation pressure.

27 WITNESS KOPECKY: A Tubular data.

28 WITNESS WALZEL: A Tubular data,

1 wellhead equipment, pressure ratings, stuff
2 like that.

3 Q Okay. And that's all -- that all
4 sounds like information you could also get
5 from a written record or not so often?

6 WITNESS KOPECKY: A Well, we --
7 although we may ask, we always ensure it's
8 going to be confirmed by written record --

9 Q Okay.

10 A -- if at all possible.

11 Q Okay. Okay. Okay. Thank you.
12 Could you describe the last well you worked
13 on.

14 A Well, I was on the well with
15 Danny --

16 Q Okay.

17 A -- in Columbia.

18 Q Okay.

19 A Participated in that. I don't
20 think I'm really -- I was in Trinidad-Tobago
21 on a well kill, but I don't think -- it was a
22 different situation and I don't think I'm at
23 liberty to --

24 Q Okay.

25 A -- because of confidentiality with
26 that client.

27 Q Okay. Is there a recent kill, well
28 kill, that you can talk about?

1 A The one prior to that would have
2 been Columbia.

3 Q Okay. Okay. Thank you. So the
4 one in Columbia, would you say that that was
5 kind of a standard or typical well kill?

6 A Well, it bridged itself.

7 Q It bridged itself. Is that normal?

8 WITNESS WALZEL: A Sometimes it
9 happens; sometimes it doesn't. Every well --
10 no two are the same when we show up.

11 Q Okay.

12 WITNESS KOPECKY: A As Danny said,
13 it's typically not typical.

14 Q Okay.

15 A What I mean by that is no two are
16 exactly the same. They're all unique
17 scenarios.

18 Q Are there any kind of criteria that
19 you would use that even just thinking about
20 it for yourselves to kind of group them like,
21 oh, this is a certain type or anything like
22 that?

23 WITNESS WALZEL: A Other than surface
24 blowout, underground blowout, broach, you
25 know.

26 Q Okay.

27 A That's how you can classify them --

28 Q Yeah.

1 A -- but then each one has its own
2 set of problems, you know, that you go
3 through the diagnostics and, you know,
4 there's no, you know, just every kill is
5 different.

6 Q Okay. Fair enough. When you show
7 up, are there any -- is there anything that
8 you do typically to either figure out what
9 you're going to do or first steps?

10 WITNESS KOPECKY: A First steps
11 typically when we show up in a well control
12 event is to ensure we secure the area, ensure
13 safety of personnel and accountability.

14 Q Okay.

15 A And then clear any hazardous
16 material from the area that could be the hot
17 zone, if you will, that could be impacted
18 such as fuel tanks or oxygen acetylene type
19 bottles, anything that could escalate the
20 situation.

21 Q Okay. And then what would you do
22 after that?

23 A Try to get an evaluation of the
24 situation.

25 Q Okay. And that would be through?

26 A Visual.

27 Q Visual, visual evaluation. And
28 does that actually really inform what you

1 choose to do next? I don't know, I mean I've
2 never been to a well.

3 A I mean it allows you to set your
4 zones, your exclusion zones.

5 Q What's an exclusion zone?

6 A Well, there are areas that you
7 don't allow any personnel in.

8 Q Okay.

9 A And then there's warm zones that
10 you can have personnel in viewing, preparing
11 to go into the hot zone or coming out,
12 exiting the hot zone. And then you've got
13 your areas that you can assemble equipment,
14 things of that nature.

15 Q Okay. So this is all kind of
16 securing the area safety. And then once that
17 kind of work is complete, how do you start
18 evaluating the well itself?

19 WITNESS WALZEL: A Well, like James
20 said, visual, can you see where the flow is
21 coming from, are we going to have access to
22 the wellhead, conditions of the wellhead. As
23 I said earlier, you can get access to the
24 wellhead, you know, are we going to be able
25 to put pump lines on it, rig up coil tubing
26 units, wireline units.

27 Q Coil what?

28 A Coil tubing, you know, equipment to

1 go in and do the well intervention.

2 WITNESS KOPECKY: A Remediate.

3 WITNESS WALZEL: A Remediate.

4 Q Okay. And then is this the time at
5 which you also runs those logs and maybe look
6 at a well history or is that later?

7 A Well, I mean if there's
8 information, then we'll review that.
9 Sometimes it takes a little while to run the
10 logs, you know, days or by the time you get
11 equipment, source the equipment, so, yeah,
12 look at the logs, order out equipment.

13 Q Okay.

14 WITNESS KOPECKY: A I agree.

15 Q Okay. And do you typically ask to
16 speak to any one kind of person or to see any
17 kind of record when you show up?

18 A Well, we would typically identify
19 the incident commander.

20 Q Okay. And what do you talk to them
21 about?

22 A Well, again, we don't own the well.

23 Q Yeah.

24 A But we're there to make
25 recommendations.

26 Q Uh-huh.

27 A So we would talk to him about what
28 they have in mind, you know, again, about

1 accountability of personnel, those type of
2 issues initially.

3 Q Okay. Is there anyone else that
4 you make it a priority to speak to?

5 WITNESS WALZEL: A Well, I mean just
6 each company, you know, if there's engineers,
7 geologists, just anybody that will have
8 information.

9 Q Okay, okay. And --

10 WITNESS KOPECKY: A And, again, just
11 for clarification, when I say we, we seek out
12 this individual, we talk to this individual.
13 A lot of times we're included in those
14 meetings. Sometimes we're not. It's done by
15 the senior --

16 Q Okay.

17 A -- personnel of Boots & Coots on
18 location.

19 Q Okay. And as far as records or
20 information that you look for when you show
21 up, is there anything that you typically look
22 for?

23 WITNESS WALZEL: A I think we've
24 already --

25 Q Yeah.

26 A Well history --

27 Q Well history, okay.

28 A Tubulars.

1 Q Okay, okay. I just want to make
2 sure.

3 A Yes.

4 Q Okay, thank you. I think I'm good.

5 MR. GRUEN: Thank you, Ms. Rose.

6 EXAMINATION (resumed)

7 BY MR. GRUEN:

8 Q Appreciate that. Thanks for that.
9 A couple things just to follow up on. I take
10 your point that each incident is different.
11 What I heard earlier, too, is that there's
12 some similarities between Columbia, what
13 happened in Columbia, and then what happened
14 in SS-25.

15 I think you had mentioned that one
16 was -- that those were a surface breach. So
17 to that point, they were similar.

18 WITNESS WALZEL: A Similar, yeah.

19 Q Even though I'm sure there were
20 lots of differences, too, to your point. So
21 just walking through that, is -- and then the
22 bridging in Columbia would have been
23 different --

24 A Right.

25 Q -- than SS-25. What else between
26 Columbia and SS-25, if anything, was similar?

27 A That there was a broach to surface.
28 That was pretty much all that was similar.

1 WITNESS KOPECKY: A I think that's the
2 only similarity.

3 Q Okay, thank you. All right, so
4 just to talk a little bit about -- I'm going
5 to ask you to maybe, if you can as best you
6 can, and I know it's three years ago
7 approximately so it's been a little time and
8 I'll work with you to help try and jog your
9 memory if you can't remember.

10 I think most people might -- their
11 memories might start to fade about what
12 happened three years ago so I get that. But
13 having said that, to the best you can, what
14 I'd like to ask you to do is give us an
15 understanding of in your experience from when
16 you first started, when you first learned
17 about SS-25 and the incident there, to give
18 us as best you can a timeline in your
19 experience of what happened including how you
20 learned, and then the different well kill
21 attempts that you had.

22 I recognize that's really broad.
23 It may take a little bit of time to do that.
24 So just maybe if we could start kind of at
25 the beginning sort of and I'll ask questions
26 about how you learned and if we could walk
27 forward in time from there to when you
28 finished up, so I'll -- this is just kind of

1 a high point. I'll start to ask questions
2 about that.

3 But I just wanted to kind of give
4 you an idea up front to where I'm going on
5 this. So maybe with that, if you could, as
6 best you can remember, approximately when --
7 and I'm not going to hold you to the exact
8 date -- but approximately when did you first
9 learn about the incident, did each of you
10 learn about the incident at SS-25?

11 A Well, I'll begin. I won't be --
12 unfortunately I won't be able to get very far
13 with the timeline.

14 Q Okay.

15 A But I initially -- I took the phone
16 call for the SS-25 at approximately by memory
17 8:00, 8:30 Houston time. And I conferred
18 with the gentleman that had phoned me with
19 SoCal. We determined that we were going to
20 need to mobilize. I contacted my employer
21 or, excuse me, my direct supervisor, the well
22 control manager, and we determined that we
23 would send the senior well control
24 specialist, a well control engineer, and
25 myself initially.

26 Q Okay.

27 A And we departed on the first
28 available commercial flight the next morning

1 early because we did look into a charter, but
2 we wouldn't have been able to address
3 anything in the dark hours and we arrived as
4 early as possible so the charter wasn't
5 beneficial.

6 Q And just a couple clarifications
7 about that. When you said 8:00 to 8:30, was
8 that in the morning or the evening?

9 A Oh, evening, I'm sorry, p.m., yes.

10 Q That's okay. Do you remember who
11 the gentleman was at SoCalGas who called you?

12 A I don't recall exactly but I do
13 recall it was a gentleman by the name of Todd
14 Van Putte maybe.

15 Q Van de Putte?

16 A Maybe, something.

17 Q Okay, that's helpful. And do you
18 remember how soon after the incident that
19 phone call happened?

20 A No, I do not remember.

21 Q That question suggests I'm asking
22 you to be precise for three years ago and I'm
23 not, so let me just clarify. Would it have
24 been within hours or days after the incident
25 first happened?

26 A My recollection it would be hours
27 maximum.

28 Q Hours maximum. That's helpful.

1 Okay, thank you. And so then you would have
2 taken a charter then or you did take a
3 charter the day -- the morning after the
4 incident happened?

5 A We flew commercial in the morning.

6 Q Flew commercial the morning after
7 the incident happened?

8 A Correct.

9 Q Okay, I follow. Thank you. And
10 when you talked about the different -- I
11 think you mentioned a well control manager
12 and a well control specialist. You decided
13 that certain personnel should come out.
14 Which individuals were those?

15 A A senior well control specialist,
16 myself, and Danny.

17 Q And what was the name of the senior
18 well control specialist?

19 A Danny Clayton.

20 Q Danny Clayton, thank you. Okay.
21 And so when you first were on the phone --
22 actually let me -- so you get out to Aliso
23 Canyon field after the charter. Am I
24 following that right? You went right to the
25 field?

26 A Yes, we did.]

27 Q What was the first thing you did
28 when you got to the field?

1 WITNESS KOPECKY: A Again, I recall --
2 and, again, I'm going by memory. I recall we
3 attended a briefing.

4 Do you agree, Danny?

5 We attended a briefing prior to
6 going to the wellsite on Aliso Canyon, the
7 briefing on the current situation and safety
8 concerns.

9 Q Okay. And the way I'm asking is --
10 I appreciate that if you want to jump in at
11 any time. I'm asking -- I'm looking at
12 Mr. Kopecky, but it's really directed to both
13 of you, so feel free to jump in.

14 WITNESS WALZEL: A Okay.

15 Q So when you talk about the safety
16 concerns, do you remember what specifically
17 they were -- what was discussed at that
18 meeting?

19 WITNESS KOPECKY: Of course, we weren't
20 really aware because we hadn't seen the well,
21 but the safety concerns to our knowledge, or
22 that were communicated to us was methane gas
23 leak.

24 Q Okay. Anything else?

25 A And not for health reasons, but for
26 as an ignition, possible source.

27 Q I see. Okay. So that the surface
28 breach, was it identified as a surface breach

1 at that point?

2 WITNESS WALZEL: A Yes. I mean --

3 WITNESS KOPECKY: A Yeah. That was
4 the reason for the phone call, the initial
5 call.

6 Q Got it. Got it. So the initial
7 phone call would have identified the surface
8 breach, and due to the surface breach then
9 there was concern about ignition, there was
10 enough gas being released into the
11 atmosphere, there were concerns about
12 ignition?

13 WITNESS WALZEL: A Anytime there's
14 gas, you know, whether it's a little or
15 any -- it's always a --

16 Q I follow. Thank you.

17 WITNESS KOPECKY: A Right.

18 Q Let me back up to what else on the
19 phone call -- what were the things identified
20 on the initial phone call to you that made
21 you say, Hey, we better get out there.

22 WITNESS KOPECKY: A The fact that
23 there was a broach to surface.

24 Q Okay.

25 A Ever slight as it may have been at
26 the time, there was still a major concern.

27 Q Okay. After the safety meeting,
28 what -- so they had identified the surface

1 breach to you. Did they -- did either in the
2 phone call or the safety meeting, can you
3 describe more the problem that they had
4 described to you.

5 WITNESS WALZEL: A I mean, it was, you
6 know, there's a gas, you know, release and
7 then we went and looked at it, you know, and
8 did an observation of the well, and, you
9 know -- you know, I mean, they just
10 described, you know, what they last saw up
11 there, and we went and looked at it and
12 confirmed it.

13 Q So you observed what they had told
14 you?

15 WITNESS WALZEL: A Right.

16 Q Did you observe anything different
17 than what they told you?

18 A No.

19 WITNESS KOPECKY: No.

20 Q What did you observe up there?

21 WITNESS WALZEL: A Well, we went and
22 looked at it and, you know, there was - there
23 was an asphalt pad on location, you know,
24 around the well, and I recall there was a
25 couple cracks in the asphalt, and you could
26 see gas fumes coming up out of it.

27 Q Okay. And were you both there when
28 you went up to see the condition?

1 WITNESS KOPECKY: A Yes. And as Danny
2 mentioned, you could see the gas. You had
3 to -- you had to really look. There were
4 small fissures, cracks, and then it wasn't
5 any major discharge visually at that time.

6 Q Okay. I think you had talked about
7 doing an evaluation after doing a visual.
8 That's kind of one of the common things you
9 mentioned to Ms. Rose is what you do -- what
10 you've done commonly.

11 So at what point did you do your
12 evaluation on SS-25?

13 WITNESS WALZEL: A First day. As soon
14 as we got there.

15 Q What did you do as part of your --
16 what did you do as your evaluation on SS-25?

17 WITNESS WALZEL: A Went and looked at
18 the well and looked at the site.

19 Q What did you decide in terms of --
20 what did you find? And what did you think
21 had to be done as a result of your
22 observation?

23 WITNESS KOPECKY: A That the well
24 would have to be killed.

25 Q So let's go through the well-kill
26 attempts. And I understand there are a few,
27 and if we can -- you know, I think there
28 were -- my understanding was there were a

1 number of them. So I'd like to just
2 walk-through, as best you can remember, the
3 different well-kill attempts.

4 So after you first got there, can
5 you talk about the first well-kill attempt.

6 WITNESS WALZEL: A Yes. I mean, yeah,
7 we, you know, we ordered out equipment -
8 pumps, pump iron, choke manifolds, you know -
9 got all the unnecessary equipment off
10 location, and we pumped down -- we lined up
11 to pump down the tubing, and I can't -- I
12 can't recall the specifics of how -- how much
13 we pumped. You know, we set the -- I believe
14 all the wellhead equipment was 5,000 PSI
15 pressure rating. So we set a safety limit
16 somewhere around 4,300 pump PSI, and we
17 pumped on it, and -- but I couldn't tell you
18 how many barrels, but we deemed that it was,
19 you know -- we shut down to regroup and talk
20 about it because it wasn't, you know, going
21 as expected.

22 Q How did you decide how many barrels
23 to pump and what PSI you were going -- what
24 pressure you were going to use in order to
25 pump them and all that stuff?

26 WITNESS WALZEL: A Right. So,
27 obviously, the faster you pump, the more
28 pressure you're going to have.

1 Q Uh-huh.

2 WITNESS WALZEL: A So we tried to pump
3 as fast, you know -- see what we could pump
4 before we exceeded the safety limit and
5 pressure and then -- but like I said, I can't
6 recall how many barrels we pumped or when we
7 shut down or I don't remember -- I don't
8 remember the specifics of how many barrels we
9 pumped.

10 MR. BRUNO: May I jump in real quick?

11 MR. GRUEN: Sure. Okay.

12

13 EXAMINATION

14 BY MR. BRUNO:

15 Q Mr. Walzel, and Mr. Kopecky, I want
16 to back up just a bit, and I want to get a
17 few clarifications before we get to the first
18 well-kill attempt.

19 When you could see fissures, could
20 you also smell gas; do you recall? Could you
21 smell the odorant?

22 WITNESS WALZEL: A I can't remember if
23 I could smell it, or, you know, I remember it
24 was windy; so, you know, I can't recall if I
25 could smell it or not that day.

26 WITNESS KOPECKY: A I'm in agreement
27 with Danny. As a matter of fact, now that he
28 mentions it, which you're all probably aware,

1 it's typically windy at all times up on the
2 mountains there, apparently.

3 I don't recall any memory of
4 smelling any -- I forget what the additive is
5 called.

6 Q Yes, sir. I understand.

7 What about the concentration of
8 gas; when we're first seeing the gas coming
9 through the fissures, was that a
10 concentration of gas that was explosive, or
11 do you recall?

12 WITNESS KOPECKY: A I don't recall.
13 We work a lot in 90, 100 percent LEL. It
14 didn't seem to be a large concentration of
15 gas. It -- we weren't concerned with the
16 ignition in the immediate area, especially
17 with the wind.

18 Q And by 90 percent LEL, you mean you
19 weren't quite at the lower explosive limit?

20 WITNESS WALZEL: No.

21 WITNESS KOPECKY: No. No. I say we
22 work in those environments all the time, and
23 with my experience, this wasn't an explosive
24 environment when we initially went up to
25 observe.

26 Q Yes, sir. Thank you. Thank you
27 for that. Would you consider -- if I use the
28 term "blow-out," does that mean anything to

1 you?

2 WITNESS KOPECKY: A Certainly.

3 WITNESS WALZEL: A Yeah. I mean, the
4 definition of a "blow-out" is an uncontrolled
5 flow or release --

6 WITNESS KOPECKY: A To the atmosphere.

7 WITNESS WALZEL: A -- or underground.

8 Q So at the time of the phone call,
9 am I understanding, it was already a blow-out
10 at that point?

11 WITNESS KOPECKY: A Whenever it
12 broached the surface.

13 WITNESS WALZEL: A Correct.

14 Q Thank you for that. I just have
15 one more.

16 You mentioned the incident
17 commander is one of the first things you do
18 around the safety meeting. Had you met the
19 incident commander at that point?

20 WITNESS KOPECKY: A I don't recall.
21 I'm familiar with the incident commander. We
22 met a lot of people upon arrival. I don't
23 recall who the incident commander was at that
24 time. At that time. At that particular
25 time.

26 Q But do you recall meeting an
27 incident commander?

28 WITNESS KOPECKY: A Yes -- no, I don't

1 know that I met him on the first day because
2 I don't recall there was so many titles,
3 meeting a lot of people. We were concerned
4 with getting a chance to look at the well,
5 but, no. I did meet an incident commander
6 throughout the job thereafter.

7 Q Yes, sir. And then, if I
8 understand, I'm just going back to
9 decision-making. Did I understand you
10 correctly that the incident commander makes
11 decisions, but you guys are providing the
12 recommendations? Did I pick that up
13 correctly?

14 WITNESS KOPECKY: A I think broadly,
15 yes. Again, what I stated earlier is that we
16 don't -- typically, and I'm referring to
17 other jobs as well, when we go on location,
18 we don't take control, if you will.

19 We're governed, if you will, by
20 whomever the customer representative is.
21 We're there to make recommendations, and they
22 know that that is our expertise.

23 Q Yes, sir. Okay. I'm going to
24 throw out a name and just to the best of your
25 recollection, just kind of trying to identify
26 the incident commander. Does the name Jimmy
27 Cho jog any memory?

28 WITNESS KOPECKY: A I recall meeting

1 Jimmy.

2 WITNESS WALZEL: A Yes.

3 Q Do you think he may have been the
4 incident commander?

5 WITNESS WALZEL: A Well, initially --
6 I don't recall, but the incident commander
7 throughout the majority, you know,
8 throughout -- what I believe was Bret.

9 WITNESS KOPECKY: A Correct.

10 Q By Bret, do you mean Bret Lane?

11 WITNESS KOPECKY: Yes.

12 WITNESS WALZEL: Yes. I couldn't
13 remember his last name.

14 Q So he was in the capacity of -- by
15 "he," I mean Mr. Lane. He was in the
16 capacity of either being incident commander
17 or making decisions?

18 WITNESS WALZEL: Yes.

19 WITNESS KOPECKY: I'm assuming -- not
20 assuming. I know his entire team.

21 MR. BRUNO: Q Yes, sir. Understand.

22

23 EXAMINATION (resumed)

24 BY MR. GRUEN:

25 Q As incident commander with his
26 team, Bret Lane was making the final
27 decisions about how to proceed on the
28 well-kill attempts.

1 WITNESS KOPECKY: A I don't know that
2 to be fact.

3 Q Okay. Would you make
4 recommendations to Bret Lane and his team
5 about how to proceed well-kill attempts?

6 WITNESS WALZEL: A Yes.

7 Q Were the recommendations followed?

8 WITNESS WALZEL: A Yes. Well, yeah.

9 Q Any changes that they made to the
10 recommendations?

11 WITNESS WALZEL: A I mean, I can't
12 remember if there was, you know, any changes
13 off the top of my head right now.

14 Q Do you remember any personnel from
15 SoCalGas who talked the recommendations
16 through with you before you made them with
17 Mr. Lane's team?

18 WITNESS KOPECKY: A I was not involved
19 in the meetings with any of the
20 recommendations.

21 WITNESS WALZEL: Yes. I mean, I was --
22 typically, I would be, like, present at the
23 morning meeting, and, you know, like I said,
24 our team was in the meetings. You know, I
25 mean, it was kind of, you know, meet in the
26 trailer, talk about what we would like to do,
27 and come up with a formula and go out and do
28 our pump job.

1 Q Who was your team leader?

2 WITNESS WALZEL: A His name was Danny
3 Clayton.

4 Q Danny Clayton, yeah.

5 And so how would you come up with a
6 recommendation to SoCalGas?

7 And when I ask, I mean, did you
8 come up with a recommendation among the Boots
9 & Coots team first, and then present it to
10 SoCal?

11 WITNESS KOPECKY: A I don't believe --
12 I wasn't involved in strategy.

13 Q Okay.

14 WITNESS WALZEL: A Yeah, I mean, you
15 know, let's try to pump on it and rig up a
16 pump on it, and, you know, with the
17 kill-weight fluids, and, you know, make an
18 attempt at trying to kill it.

19 Q And that was a conversation you had
20 with Danny Clayton to figure that out?

21 WITNESS WALZEL: A Yeah. I mean,
22 really, when we got there, that was the
23 first, you know -- you know, we got to pump
24 on it to kill it.

25 Q Right. Right. Yeah. So I'm
26 following you on the strategy of how to do
27 it. I'm just trying to get at who was kind
28 of in the -- who you talked to first in order

1 to figure out how.

2 A I can't -- I don't remember who I
3 talked to first.

4 Q Okay. Okay. Someone within Boots
5 & Coots first or was it kind of an overall
6 meeting with SoCalGas and Boots & Coots to
7 figure out how to do it?

8 A Well, you know, it was always kind
9 of overall, you know, group, you know,
10 discussion.

11 Q Okay.

12 A Weigh out pros and cons and
13 consequences to come up with the best plan.

14

15 EXAMINATION

16 BY MR. BRUNO:

17 Q Mr. Wetzel --

18 WITNESS WALZEL: Walzel.

19 Q -- Walzel. I'm sorry. I'm sorry,
20 sir.

21 Or, Mr. Kopecky, just to clarify, I
22 think you mentioned you had to pump on it to
23 kill it?

24 WITNESS WALZEL: A Right.

25 Q What are you trying to achieve
26 there? You are pumping some medium down?

27 A Yeah.

28 Q Can you kind of describe that

1 process. Like, what are you trying to...

2 A Well, yeah, to, you know, to kill a
3 well you need to have hydrostatic equal to or
4 higher than the reservoir pressure. So from
5 that, you can come up with how many
6 pounds-per-gallon fluid you need, and then,
7 you know, on a well that's flowing, you know,
8 you kill it with mud weight and pump rate.

9 So, you know, part of the initial
10 pump was, you know, if it works, it works.
11 If it doesn't, it might give us some
12 information to, you know, use in the future
13 attempts.

14 Q You mentioned reservoir pressure.
15 Is that a number that you guys calculate or
16 is that a number that was given to you by
17 SoCalGas?

18 A It was a number given to us.

19 Q So is that an important input for
20 the first well-kill attempt?

21 I mean, did you -- I'm
22 understanding it to be almost like, you know,
23 do your best to design it, to overcome it. I
24 don't want to put words in your mouth --

25 WITNESS WALZEL: A Right.

26 Q And then see what happens?

27 WITNESS WALZEL: A Well, not "to see
28 what happens," but, you know, we know our --

1 you know, come up with our kill weight. You
2 know, we didn't know -- or you know, the
3 variables would be if, you know, we could
4 pump and overcome -- you know, get enough
5 hydrostatic in the well bore to maintain the
6 reservoir pressure.

7 Q And when that number was given to
8 you, was it verbal or was it written or a
9 record?

10 WITNESS WALZEL: A Well, I know it was
11 verbal and there might -- some record, you
12 know, written down somewhere.

13 Q Just based on your experience, is
14 that reservoir pressure reasonable? I mean,
15 did it sound reasonable?

16 A I mean, you know, as far as
17 reasonable, I mean, it's -- I don't remember
18 what --

19 WITNESS KOPECKY: A I don't recall
20 what it was.

21 WITNESS WALZEL: A I don't remember
22 what the equivalent mud weight was, but it
23 wasn't abnormally high.

24 Q So if I understand you correctly,
25 whatever the reservoir pressure was, you then
26 designed the mud weight --

27 WITNESS WALZEL: A Right.

28 Q And that mud weight didn't stand

1 out as abnormal?

2 WITNESS WALZEL: A No.

3 Q It was kind of in the ballpark, if
4 you will?

5 WITNESS WALZEL: A Yeah, we worked on
6 mud weights up to -- a lot higher, you know,
7 and normal mud weight.

8 MR. BRUNO: Okay. I do have one more
9 question. I apologize for jumping in,
10 Darryl.

11 MR. GRUEN: That's okay.

12 MR. BRUNO: Q The first meeting, you
13 know, the check-in with the incident
14 commander, prior to the first well-kill
15 attempt, was there any sort of feeling this
16 was going to be a standard well-kill attempt
17 or this one's different or this is going to
18 be a several month...

19 WITNESS WALZEL: A We didn't have any
20 expectations.

21 Q Yes, sir.

22 Is it always like that, there are
23 just no real expectations, it just kind of
24 depends?

25 A I mean, we don't -- yes. I mean,
26 we don't show up, Oh, this is going to be a
27 two-day job or a three-day job or two-month
28 job.

1 WITNESS KOPECKY: A And when we
2 attempted to first kill, you're always in
3 hopes that it's going to kill, that you're
4 going to be successful in killing the well.

5 WITNESS WALZEL: A Yes.]

6 EXAMINATION (resumed)

7 BY MR. GRUEN:

8 Q Just a couple of follow-ups on the
9 reservoir pressure and how that input got to
10 you. Did they -- so SoCalGas gave you the
11 reservoir pressure as an input for you to
12 calculate your mud weight?

13 WITNESS WALZEL: A Yes.

14 Q Did I follow that right? Okay.
15 Did they explain to you how they came up with
16 the reservoir pressure?

17 A They had pressure gauges.

18 Q What -- in giving you a number --
19 what was their basis for giving you the
20 number?

21 A To figure out the -- know what your
22 equivalent mud weight is.

23 Q Sure. I'm asking the question the
24 wrong way.

25 What were they -- did they do
26 anything to show you how they came up with
27 the number?

28 A I mean, what do you mean by "how

1 they came up with the number"?

2 Q You talked about logs?

3 A Right.

4 Q Did they show you the logs?

5 A I mean, it wouldn't be -- it
6 wouldn't be -- I mean, when I talk about
7 logs, I'm talking about noise temperature
8 levels. I mean, they have pressure gauges,
9 and they are maintained -- it's their gas
10 storage, so they know what the pressure is.
11 You know?

12 Q Okay. So I think I'm hearing --
13 and check me on this -- that typically
14 someone would come up with a reservoir
15 pressure based on things like noise
16 temperature logs?

17 A No.

18 Q Okay.

19 A Yeah. When I talk about logs --
20 no, I mean, it's -- they are gas-filled.
21 They are putting gas in it, taking gas out.
22 They have sensors or, you know, pressure
23 gauges.

24 Q So they would -- they -- did they
25 show you that information -- any of that
26 information? I think we're going around the
27 same thing, but I'm just trying to understand
28 your answer, if they actually showed you the

1 results from the noise temp logs?

2 A It wouldn't have been -- noise temp
3 wouldn't have showed us the pressure. I
4 mean, there's a pressure gauge and a number
5 on it and --

6 Q Okay. Okay. So -- yeah, I think
7 we'll get back to it.

8 MR. SHER: Darryl, may I?

9 MR. GRUEN: Yeah.

10 MR. SHER: Q Just with regards to
11 pressure gauges, do you know -- are those
12 pressure gauges in the well itself, or are
13 those pressure gauges throughout the fields?

14 A I don't know where their gauges
15 were set up.

16 MR. GRUEN: Okay. Okay.

17 EXAMINATION

18 BY MR. BRUNO:

19 Q And Mr. Walzel or Kopecky --
20 Mr. Kopecky, you guys didn't see the gauge,
21 but there was a gauge that registered the
22 reservoir pressure; is that what you're
23 saying?

24 WITNESS WALZEL: A I mean, we saw
25 gauges on wells, and -- you know, I don't
26 recall what that number was right now or --
27 but anyways.

28 Q Right.

1 A So we -- you know, there was gauges
2 on wells out there.

3 Q But it's a direct measurement.
4 It's not a calculated -- in other words, when
5 we talk about reservoir pressure, you're
6 saying that that can be read on a gauge?

7 A Right.

8 Q Okay. Is that --

9 WITNESS KOPECKY: A In pound per
10 square inch. That's what we're referring to.

11 Q And it's atmosphere -- it's at
12 surface?

13 A Correct.

14 WITNESS WALZEL: A Right.

15 Q Does that measure the full pressure
16 of the reservoir all the way down to the
17 bottom hole?

18 A Well, you would have to account for
19 hydrostatic -- or the gas gradient from
20 surface to the reservoir, but yes, I mean,
21 calculate it -- you can calculate it.

22 Q When you're designing your mud or
23 your kill fluid, if you will --

24 A Right.

25 Q -- is it that reservoir pressure or
26 is it also a calculation? Could you maybe
27 talk about that a little bit, like how it --
28 you mentioned gradient. I'm not an expert,

1 sir, so --

2 A Right. So your reservoir has a
3 pressure. Then there's a -- in this
4 instance, it was a gas column, and then
5 there's a pressure gauge at the surface. So
6 you would -- you know, you read your --

7 WITNESS KOPECKY: A Pressure.

8 WITNESS WALZEL: A -- pressure on the
9 gauge and then add the hydro -- the gas
10 gradient column and then add those two
11 together, and it would give you your
12 reservoir pressure.

13 Q And it's that reservoir pressure,
14 when you add them together, that you are
15 designing your mud to?

16 A Well, yes, I mean, you get -- if
17 your reservoir's a thousand PSI and then --
18 there's a formula: .052 times the mud weight
19 times the depth gives you a pressure. So you
20 can calculate what that mud weight would need
21 to be.

22 Q And that calculation of adding the
23 column pressure to the gauge pressure, if you
24 will, was that done by Boots & Coots, or that
25 was done by SoCalGas?

26 A I'm sure. Yeah, I mean, we would
27 have -- I mean, we would have calculated it,
28 you know, ourselves to come up with --

1 WITNESS KOPECKY: A There would have
2 been more than one person running the
3 calculation.

4 Q It's an important number. So a lot
5 of checks?

6 A And it's a pretty simple
7 calculation.

8 Q Does that formula have a name that
9 you described?

10 WITNESS WALZEL: A Gas gradient.

11 Q Gas gradient?

12 A What I would call it.

13 Q Is that synonymous with flow rate?

14 A No. I mean, pressure and flow rate
15 are -- you can have high pressure, low flow
16 rate, low pressure, high flow rate. I mean,
17 I don't know what you mean by "synonymous."

18 Q Does the flow rate factor into the
19 equation for determination of mud weight?

20 A On a dynamic kill, yes, it would.

21 Q The design for the first well-kill
22 attempt, was that a dynamic kill?

23 A It would have -- we were pumping on
24 a well that was flowing, so it would have
25 been -- there was unknowns of flow paths, how
26 much it was flowing, reservoir, you know --
27 there was some unknowns. So you design it
28 for the max we could pump, and that's the max

1 you could pump.

2 MR. SHER: Q Just for clarification,
3 you said the first well-kill attempt. Is it
4 true that SoCalGas tried to do a well-kill
5 attempt prior to Boots & Coots' first
6 attempt.

7 A I mean, I wasn't there, so I don't
8 know.

9 Q Did they provide you any
10 information as to whether or not they
11 attempted an attempt to kill the well prior
12 to Boots & Coots doing so?

13 WITNESS KOPECKY: A I didn't see any
14 documentation.

15 MR. GRUEN: Q What other things
16 factored into the calcs for Boots & Coots'
17 first well-kill attempt? So you talked about
18 flow rate.

19 A Right.

20 Q You talked about the other factors
21 that you used to make your calculation.

22 A Like I said, there was unknowns of
23 where flow path might be, how -- the rate of
24 flow. You know, if it's a small hole, it
25 might be flowing really fast. There's
26 several unknowns. All we knew was, hey, our
27 wellhead equipment is only good for this. So
28 that's our limiting factor.

1 WITNESS KOPECKY: A Limiting factor.

2 WITNESS WALZEL: A So we pumped as
3 fast as we could, and that -- you know, the
4 wellhead -- you don't want to exceed your
5 wellhead equipment.

6 Q Got you. Can you describe what the
7 different unknowns were that you just talked
8 about?

9 A Yeah. Initially, you know, any
10 possible flow paths, conditions of the two
11 being -- conditions around -- you know,
12 around the well -- you know, the formation
13 around the well. But, you know, the flow
14 rate and flow paths were, you know, probably
15 the two biggest.

16 Q Okay.

17 EXAMINATION

18 BY MS. ROSE:

19 Q Two biggest unknowns?

20 A Right.

21 Q Okay. In your experience, is it
22 possible to get that -- have you in past
23 well-kill attempts been able to get flow
24 paths and flow rates to get perfect
25 information for those things?

26 A Well, from -- you know, from
27 running, say, a noise temp log, you can get a
28 picture of where the flow might be entering

1 and exiting a wellbore. Spinner survey is
2 nothing more than a little spinner on a tool,
3 and if it's not spinning, it's not flowing.
4 If it's spinning somewhere, you can kind of
5 pinpoint holes. There's USIT logs and
6 different logs to run to get a picture of the
7 flow paths.

8 And then you can -- if the well is
9 being diverted, you can set up pressure
10 gauges and get an estimate of gas flow. Or,
11 you know, if it's several -- if it's oil,
12 water, gas, you know, makes it a little more
13 complicated to get an exact. But, you know,
14 typically, you know, you design it, and then
15 you can put in a -- you know, you'd have
16 extra hydraulic horsepower and stuff to -- if
17 you need to pump more. But in this case, the
18 5,000 PSI was kind of limited on how fast you
19 could actually pump on the well.

20 Q So with regards to the noise temp
21 logs and the spinner surveys and those
22 things, were any of those used here in order
23 to get access, get a better understanding of
24 the flow paths and the flow rates?

25 A Yes.

26 Q Can you talk about that more?

27 A Yes. I don't recall if we did it
28 after the first attempt or second attempt,

1 but we ran noise temperature. And from what
2 I recall, there was a severe cooling at -- it
3 was -- it was over a range, but it was cold
4 enough that the tools weren't communicating
5 with the logging truck. That was the first
6 I've ever seen.

7 EXAMINATION

8 BY MR. SHER:

9 Q What does that mean if it's cold?

10 A I guess the tools have -- oh. If
11 it's cold, that means the gas is expanding in
12 the cooling. And I guess the tools -- I
13 don't know if it was how the temperature
14 rate -- I never seen it before, but over that
15 range, it was -- or those depths, it was
16 cold. So the tool was not communicating with
17 the logging truck. So we ran it, and it was
18 cold over -- I don't remember the depth,
19 but -- exactly, but you know, maybe, say, 800
20 to 1,000 foot there was a cooling. So we ran
21 the spinner survey, and it didn't show
22 anything until, I remember, right at the
23 bottom it was spinning.

24 So, you know, at the time it
25 appeared that the gas was exiting the tubing
26 fairly deep. Then we also -- yes. So we ran
27 those two.

28 Q Sorry. By "fairly deep," in your

1 experience, is that 1,000 feet or 8,000 feet?

2 A Yeah. I'm sorry. When I say
3 "fairly deep," it was just -- well, it was
4 as -- I don't remember the number, but the
5 spinner looked normal until it got as deep as
6 we ran it in the well. When I say "fairly
7 deep," it was towards the bottom of the well.
8 So that's why I said "fairly."

9 Q So that gives you an idea that the
10 gas is escaping the tubing or the casing at
11 some point deeper than 1,000 feet in the
12 well?

13 A No. Well, it gave a range. It was
14 kind of a -- it was cold over -- you know, it
15 was cold over certain -- again, the
16 information wasn't being sent to the logging
17 truck very good -- very well. So it was just
18 a range of depth where it was cold. So there
19 wasn't -- you couldn't say, Oh, it's right --
20 there's a hole right here. It was just
21 somewhere over -- there's likely a hole.

22 Q Okay.

23 MR. SHER: Q Sorry. On that point --
24 so when you have gas expanding and creating
25 cooling, it means that gas is going from a
26 smaller, maybe, aperture to a larger -- is
27 that --

28 A Are you talking about hole size?

1 Q Yes.

2 A I mean, it means it's going through
3 a hole and expanding.

4 MS. ROSE: Q So the volume of the gas
5 would be increasing?

6 A Yeah. I mean, it's expanding.

7 MS. ROSE: Yeah.

8 EXAMINATION (resumed)

9 BY MR. GRUEN:

10 Q So just regarding the flow paths
11 and flow rates -- so the noise temp logs, you
12 ran it. You ran a spinner survey, right?

13 A Mm-hmm.

14 Q You did your own noise temp log?
15 You created your own?

16 A What do you mean by I created it?

17 Q I'm wondering if you used
18 SoCalGas's -- if they provided you a noise
19 temp log or --

20 A No. There was one run while we
21 were out there.

22 Q And you used the information that
23 you had from both the noise temp log and the
24 spinner survey while you were out there?

25 A Right.

26 Q Did you get any information from
27 SoCalGas about the condition of the well
28 before you got out there?

1 A No.

2 Q No. Okay.

3 WITNESS KOPECKY: A No.

4 MR. GRUEN: Okay.

5 MR. SHER: Darryl -- sorry -- I just
6 want to note it's 11:15. Does anyone need a
7 break for the bathroom?

8 WITNESS KOPECKY: A Sure.

9 MR. GRUEN: Let's go off the record.

10 (Off the record.)

11 MR. GRUEN: Back on the record.

12 Q If we can just -- if we could keep
13 moving forward. I'm trying to get a time
14 line as best we can.

15 WITNESS WALZEL: A Mm-hmm.

16 Q So when you first came out -- and
17 we were talking a little bit about a
18 well-kill attempt that you did -- how soon
19 after you came out approximately do you
20 remember that you started the first well
21 kill?

22 A Oh. I don't recall how many days
23 that was.

24 Q Okay.

25 WITNESS KOPECKY: A I do not either.

26 Q Do you recall approximately how
27 many well-kill attempts you did?

28 A I recall approximately three to

1 possibly five.

2 Q Over how long a period
3 approximately?

4 A Approximately 28 days.

5 WITNESS WALZEL: A Right.

6 Q Okay. And again, approximately how
7 often did you do each well-kill attempt?

8 WITNESS KOPECKY: A I don't recall.

9 WITNESS WALZEL: A I don't recall how
10 many days were in between because between
11 some of them we were doing -- we had -- we
12 had to do other things.

13 Q Okay. Okay. So three to five
14 well-kill attempts over about 28 days. Do
15 you recall how -- so I think you described
16 the weight of the mud and the pressure that
17 you used on the first attempt that you tried?

18 A Right.

19 Q How did those factors change, if at
20 all, from the first attempt to the second?

21 A I mean, the reservoir pressure was
22 decreasing. You know, that's -- that would
23 be the reservoir pressure, and maybe the flow
24 coming from the well might have decreased.
25 But again, that was over time. The pressure
26 was the only thing that I recall recorded
27 that could be verified had changed.

28 Q Decreasing?

1 A Decreasing.

2 Q Okay. Okay. Anything to add, Mr.
3 Kopecky?

4 WITNESS KOPECKY: A No. Just as Danny
5 says, the pressure was decreasing, and going
6 by memory, to my knowledge, SoCal was
7 reducing that pressure by moving from that
8 reservoir -- moving the gas.

9 Q As the pressure decreased, how
10 would you adjust the weight of the mud?

11 WITNESS WALZEL: A Well, I mean, I
12 don't recall how -- if the mud weight was
13 changed or if we changed the mud weight while
14 we did it.

15 Q Okay.

16 WITNESS KOPECKY: A And just for
17 clarification -- and we typically use the
18 term "mud weight," but I don't recall -- I
19 don't recall if it was actually mud or if it
20 was a clear brine.

21 Q So there was a substance, and you
22 were figuring out what weight to use?

23 WITNESS KOPECKY: A Right.

24 WITNESS WALZEL: A Right.

25 Q Did you consider other options? I
26 assume this -- maybe I should clarify this.
27 These were all top well attempts, right?

28 A Mm-hmm.

1 Q Were there -- I don't have the
2 knowledge that you both have. Were there
3 other options that you considered other than
4 the top well-kill attempts in order to kill
5 the SS-25?

6 A We discussed a relief well.

7 WITNESS KOPECKY: A And I was aware
8 that they were -- SoCal was making the
9 preparations and physically saw them. I
10 don't remember on what day I physically saw
11 preparations being made in constructing pads,
12 and things of that nature -- two pads, as a
13 matter of fact, but they were making
14 preparations to drill the relief well
15 simultaneously. Of course, it takes time to
16 get everything together -- a rig. So it
17 really wouldn't be same options, but they
18 were proceeding with that -- that
19 contingency.

20 Q Did you have any recommendations --
21 did you talk with them about the relief well?

22 A I didn't personally, but I know
23 that Boots & Coots did.

24 WITNESS WALZEL: A Right.

25 Q Who at Boots & Coots talked to
26 SoCalGas about the relief well?

27 A Well, the conversation I recall
28 early -- and I don't remember if it was after

1 the first or the second, but early on in the
2 thing, you know -- hey, we always want to be
3 planning a relief well in case surface
4 intervention doesn't work or isn't possible.
5 And they were -- I was told our engineers are
6 gathering data and coming up with a plan.

7 Then our -- we have -- a relief
8 well group started working with them and
9 planning relief well directories, you know,
10 the kill from the relief well to the blowout
11 well, but I wasn't involved with the relief
12 well planning. But early on in the planning
13 it was already -- the wheels were -- the
14 process was in motion.

15 Q Okay. Just in terms -- let me go
16 back to the three to five well-kill attempts
17 that you made. I get it. This is a rough
18 estimate. Again, we're talking about
19 something about three years ago. So just in
20 your experience, how often have you been
21 successful on your first well-kill attempt
22 approximately?

23 A Oh, I wouldn't have a number
24 percentage-wise.

25 Q Can you give a rough estimate?

26 A I mean, I could say they are not
27 always killed on the first time.

28 Q So maybe between 80 and 90 percent

1 are killed on the first time or 50 and 60
2 percent are killed the first time?

3 A I mean, I wouldn't have -- I
4 wouldn't know a percentage.

5 Q I guess I'm wondering just based on
6 your experience how often -- how often -- I
7 get that they are not all killed the first
8 time, but they are -- some of them are killed
9 the first time, I would imagine, right?

10 A Yeah. Some are.

11 Q So are we closer to almost all of
12 them being killed the first time, or is it
13 closer to almost none of them being killed
14 the first time?

15 A I mean, I don't have a percentage.
16 Somewhere in between.

17 Q Okay. How about you?

18 WITNESS KOPECKY: A No, I'm
19 thinking -- trying to, but I can't come up
20 with any kind of percentage either.

21 Q Was Columbia killed the first time?

22 WITNESS WALZEL: A If I remember, it
23 bridged on its own.

24 Q So that means -- by "bridging," it
25 actually stopped the gas from leaking? In
26 the case of Columbia, it stopped the incident
27 naturally?

28 A Yeah.

1 Q Did you try to kill?

2 A It bridged. If I remember, it
3 bridged as we were getting -- we were -- the
4 snubbing unit rigged up.

5 Q Oh, I see. What about some of the
6 other wells that you talked about in the past
7 year, did those -- that you mentioned to Ms.
8 Rose -- were those successful -- other than
9 Columbia, were those successful kills in the
10 first attempt?

11 WITNESS KOPECKY: A Honestly, I think
12 those -- any other wells that we mentioned
13 are somewhat -- other than the one similarity
14 that we brought up about Columbia, I think
15 other well attempts would be somewhat
16 irrelevant. That is, as we had stated
17 earlier, every situation is different. I
18 mean, it may appear similar, but there's
19 different information that goes into the
20 strategy.

21 Q Right. So I hear what you're
22 saying, and I -- I think I just like to get
23 the facts out and understand. And I get that
24 you haven't given me a specific answer to
25 this also, and I'm asking you guys both
26 directly. Okay? So let's just get this down
27 and be sure. It could be because I may have
28 some follow-ups. Okay. So just with those

1 well-kill attempts, even noting your point
2 about it not being relevant, I'd still like
3 you to answer the question. Okay?

4 So in terms of -- all right. So
5 Columbia bridged on its own. I'm just
6 looking for the other leaks. I think Mr.
7 Kopecky, you had identified a couple of them.
8 There was Columbia, Trinidad-Tobago -- did
9 that one -- was that one killed on the first
10 attempt successfully?

11 A Yes, it was.

12 Q South Texas, was that one killed on
13 the first attempt successfully?

14 A No.

15 Q When was that one killed?

16 A Maybe on the third circulation.

17 What I mean -- for clarification,
18 we're talking apples and oranges. That was a
19 drilling well. It wasn't a production well
20 or a storage well. That well was being
21 drilled. There was totally different
22 circumstances on the well in Trinidad-Tobago.
23 It took 7 barrels of fluid to kill the well.

24 Q I appreciate the clarification.
25 That's helpful. I think I'm understanding
26 why you're saying it's not relevant.

27 A Yes, sir.

28 Q So that's helpful in context.

1 Okay. Let me just ask -- I think you had
2 talked a little bit about some kind of
3 information -- some kinds of records that you
4 need or that you typically use, and I think
5 one of the things that you mentioned was
6 drilling -- drilling records and well
7 history. So could you talk about, in the
8 case of SS-25, what information you asked for
9 from Southern California Gas Company in order
10 to do your work?

11 A Yes, they provided drilling records
12 when the well was drilled. There was a --
13 some old logs, and I believe it was -- you
14 know, I can't recall what logs, but anyway,
15 you know, just your basic, you know -- what
16 the, you know, the drilling records were from
17 the company that drilled the well case and
18 sizes. There might have been some
19 resistivity log in there. I don't recall
20 exactly what it was. But you know, it would
21 have been something just to determine fluids
22 in the formation when they drilled the well
23 years ago.

24 Q Anything else?

25 A Not that I can recall right now.

26 Q Anything?

27 WITNESS KOPECKY: A No, sir.

28 Q That's helpful. So in terms of the

1 drilling records, what do you typically
2 expect to see in a drilling record given your
3 experience?

4 A Well, the normal drilling record
5 today would be we drill from this depth to
6 this depth, mud weight of this -- basically
7 just a diary of what happened at the well
8 that day.

9 Q Okay. So on a historic basis,
10 day-to-day, dating back to the beginning of
11 the well?

12 A No. This would have been during
13 the drilling process of the well.

14 Q Okay. When the well was initially
15 drilled?

16 A Correct.

17 Q Got you. Okay. And what did you
18 see in the drilling records in the case of
19 SS-25? What did you see in those drilling
20 records?

21 A Today we drilled this depth to this
22 depth, ran this casing, submitted this
23 casing, your normal drilling activity.

24 Q Did you say -- was there any
25 information regarding the drilling activity
26 that you just described that was missing?

27 A No.

28 Q How about -- what would you see on

1 the logs and the other records that you
2 talked about? What would you expect to see
3 in those cases?]

4 A From what I recall, the log, it
5 would have been a resistivity, which it was,
6 you know, a typical log that after a well
7 drill, it would have said, okay, this zone is
8 water-bearing or oil-bearing or, you know,
9 just a normal logs run after a well is
10 drilled.

11 Q Okay. So when you say
12 water-bearing, can you just clarify what that
13 means.

14 A Well, I mean it would tell you. It
15 would give you an idea if a certain zone has
16 water in it or oil in it or, you know,
17 resistivity of the fluids in the well.

18 Q Okay. And why is that? Why do you
19 need that information?

20 A Well, the whole idea for drilling
21 the oil well was to find oil so, you know, a
22 company would run them to say, hey, this
23 might be oil right here.

24 WITNESS KOPECKY: A It would give you
25 an indication of where you set your pipe.

26 Q Gotcha. So the higher the
27 resistivity, the more likely that you might
28 find oil?

1 A Right.

2 Q Okay, I follow. So what other
3 things within the well history, what other
4 records would you -- in order to do your work
5 in the course of your work -- would you ask
6 to see in order to kill a well?

7 A First of all, just for
8 clarification again, I didn't examine any of
9 the drilling records. I think I did -- the
10 only records I saw on the well were of a
11 wellhead schematic.

12 Q Okay. And what was the purpose in
13 seeing -- in asking for and seeing the
14 wellhead schematic?

15 A Well, typically when we do that, it
16 kind of helps you determine for a fact
17 tubular size by your nomenclature of your
18 wellhead equipment. If you've got a 2 7/8,
19 3 1/2, whatever, 2 3/8 tubing, typically you
20 can't see in the well, of course. And if
21 someone says, hey, we got 2 7/8 tubing and
22 typically the well will have 2 9/16 tree on
23 it, so it's just different factors that you
24 put together to draw you to a conclusion.

25 Q Okay.

26 WITNESS WALZEL: A And that
27 information is needed, you know. If we're
28 going to rig up a wireline unit or whatever,

1 you need to know flange sizes so if you need
2 to order out a valve, you know what size
3 valve to order out to, you know, to put on
4 the tree or whatever.

5 WITNESS KOPECKY: A Basically so you
6 know what you're working with.

7 Q Okay. And so what equipment, if
8 any, did the wellhead schematic -- did you
9 make any decisions about what equipment to
10 use based on the wellhead schematic?

11 WITNESS WALZEL: A I mean it would
12 have been additional valve, you know, size of
13 the valve. But if we needed to rig up a
14 wireline, we need to go from this size flange
15 or, you know, basically that would have been
16 it. That wouldn't have determined what
17 equipment we need to order, just what do we
18 need to order to rig up the equipment.

19 WITNESS KOPECKY: A We did add -- we
20 did an additional swab valve or crown valve,
21 if you will, just as an additional barrier.

22 Q What is a swab valve or a crown
23 valve?

24 A It's located at the uppermost of
25 the tree, just below your tree cap or your
26 bottom hole test adapter.

27 Q Okay.

28 A It would be your top component on

1 the tree itself.

2 Q Thank you. Were any of the flanges
3 or the valves, was there any that didn't fit
4 properly or that weren't used, that you
5 couldn't use effectively when you used the
6 equipment to hook up?

7 WITNESS WALZEL: A No.

8 WITNESS KOPECKY: A No, not to my
9 knowledge.

10 WITNESS WALZEL: A Because we rigged
11 up a, you know, ran pipe, plumbed everything
12 up from the wellhead up and tied in, you
13 know. As I recall, the valves were working.

14 WITNESS KOPECKY: A Yes.

15 Q Okay. Thank you.

16 A The equipment, service equipment,
17 was in relatively good condition.

18 Q Okay. And based on the wellhead
19 schematic, all the equipment that you had
20 hooked up properly, the wellhead schematic --

21 A It was accurate.

22 Q -- information was accurate?

23 WITNESS WALZEL: A Yeah.

24 WITNESS KOPECKY: A And then we
25 confirmed it visually.

26 Q All right. What other information
27 did you ask for regarding the history of the
28 well, if any?

1 WITNESS WALZEL: A I mean that would
2 have been -- I believe that covered all the
3 information.

4 Q Okay.

5 MR. BRUNO: Yeah, if I may.

6 MR. GRUEN: Yes.

7 EXAMINATION

8 BY MR. BRUNO:

9 Q Mr. Walzel or Mr. Kopecky, just on
10 the wellhead itself, I think we're talking
11 about the schematic so I do have a question.
12 Going back earlier we talked about you don't
13 want to exceed your wellhead equipment when
14 we're designing the, you know, the --

15 WITNESS WALZEL: A Correct.

16 Q -- to overcome. Was the wellhead
17 sufficient to overcome the --

18 A Yes.

19 Q -- the reservoir pressure?

20 A Yes.

21 Q So it wasn't limited by the
22 wellhead equipment?

23 A No. Limited to how fast we could
24 pump on it.

25 Q So it was limited by how fast you
26 can pump but not the weight?

27 A Right, yeah. Well, it has a
28 pressure rating. Every wellhead has a

1 pressure rating, 3,000, 5,000, 10,000 PSI,
2 whatever it is. And, you know, you don't
3 want to apply pressure that's more than what
4 it's rated for.

5 Q Right. You don't want to yield
6 a --

7 A Right.

8 Q -- piece of steel?

9 A Correct.

10 Q If you had a more robust wellhead
11 on 25, would you have pumped at a higher
12 rate?

13 A You would have to -- you'd have to
14 look at the tubulars and all that but, you
15 know, the wellhead was a design. It was fit
16 for purpose in our opinion.

17 WITNESS KOPECKY: A My recollection,
18 and I don't recall the number of the
19 reservoir pressure, but I think my best
20 recollection is the wellhead working pressure
21 of 5,000 pounds pretty far exceeded that
22 reservoir pressure.

23 Q Okay, so based on the reservoir
24 pressure, the ensuing calculations, and the
25 design, you weren't limited by the wellhead?
26 You were able to design a good plan to go in
27 with the first well built in?

28 WITNESS WALZEL: A Yes. I mean we

1 designed it to not exceed the pressure rating
2 of the wellhead equipment.

3 EXAMINATION

4 BY MS. ROSE:

5 Q Would you have pumped at a higher
6 pressure if the wellhead had been rated for a
7 higher pressure?

8 WITNESS WALZEL: A If it was rated for
9 it --

10 Q Yes, if it --

11 A -- and the tubulars were rated for.

12 Q Is it always better to pump at a
13 higher pressure?

14 A Not always but, you know, if you
15 pump at a faster rate, then you'll have a
16 higher pressure --

17 Q Yeah, and that's --

18 A So, but --

19 Q -- desirable?

20 WITNESS KOPECKY: A Well, just to
21 clarify again, the wellhead was normal. You
22 wouldn't find a higher rated -- on this type
23 of well, you would not find a higher rate
24 working pressure assembly anywhere.

25 Is that accurate?

26 WITNESS WALZEL: A Yeah.

27

28

1 EXAMINATION (resumed)

2 BY MR. GRUEN:

3 Q So this was -- what that means is
4 this is the highest pressure which you could
5 pump on this particular well?

6 WITNESS WALZEL: A Correct.

7 Q Why is that the case, that this is
8 the highest rated I guess, the highest
9 pressure at which you could pump based on
10 this wellhead for this kind of well?

11 WITNESS KOPECKY: A Your wellhead
12 design is based from when the well is drilled
13 taking in consideration your formation
14 pressure.

15 Q Okay. And so this --

16 A Whereas, your formation will not
17 exceed the rated working pressure of your
18 surface equipment.

19 Q So if you pumped at a higher
20 pressure than what this wellhead was designed
21 to handle, what would have happened?

22 WITNESS WALZEL: A Well, if you
23 exceed -- I mean there's a possibility of
24 your wellhead equipment failing if you exceed
25 the rating of it.

26 WITNESS KOPECKY: A Correct.

27 Q All right, okay. In terms of -- I
28 want to just go back to the timeline for a

1 second. You talked about being there for
2 about 28 days, and I think you were talking
3 about three to five well kill attempts. In
4 terms of that, how quickly did you get the
5 drilling records when you asked for them?
6 When did they provide -- when did SoCalGas
7 provide those to you?

8 A I don't know that. Danny may.

9 WITNESS WALZEL: A As I recall, they
10 had them with them already.

11 Q And same then for the resistivity
12 logs?

13 A Yes. It was a folder and all the
14 documents were in it.

15 Q Okay. All the documents you needed
16 to do your work?

17 A Yeah.

18 Q Okay, I follow.

19 WITNESS KOPECKY: A And just, if I can
20 interject, when I stated 28 days, that's
21 because I spent approximately 28 days which I
22 think everyone is aware, I think the event
23 was a little longer than that. I had rotated
24 out.

25 Q Gotcha. Thank you. I appreciate
26 that and thanks for the reminder on that.
27 Were you there longer, Mr. Walzel?

28 WITNESS WALZEL: A I was. And I

1 either got home on December 4th or
2 December 14th. I think it might have been
3 the 14th.

4 Q Let's see if I'm doing my math
5 right here. So you would have come out --

6 WITNESS KOPECKY: A I took the call
7 late October, I think, very end, 28, 27
8 October. I returned to Texas, to Houston,
9 late November so that's the best I can --

10 Q Right around Thanksgiving it sounds
11 like, give or take?

12 A Right, right -- no, I think I
13 missed that. I did.

14 Q Oh, is that right? Okay. You had
15 Thanksgiving at Aliso Canyon?

16 A Right.

17 WITNESS WALZEL: A Yes, we did.

18 MR. SHER: Probably wasn't a laughing
19 matter.

20 MR. GRUEN: Q I laugh now, but I
21 wouldn't have been laughing then either. Do
22 you recall how long after Thanksgiving you
23 had to stay?

24 WITNESS KOPECKY: A I don't. I know I
25 was there approximately 28 to 30 days.

26 Q Okay, that's helpful. And you were
27 there. So, Mr. Walzel, you were there
28 another week to two and a half weeks

1 yourself?

2 WITNESS WALZEL: A Correct.

3 Q The extra time that you were there,
4 were there any additional well kill attempts
5 that you recall?

6 WITNESS WALZEL: A I don't -- I know
7 by when I had left, there had been no more
8 attempts. And I don't know when -- I don't
9 remember what day the last one was, but
10 towards the end of my time there, it was
11 already had turned into, you know, relief
12 well.

13 And the last week or two is I would
14 say we were just there to, you know, monitor
15 the 25 site and keep it secure, monitor it
16 while they -- while they got ready for the
17 relief well. And then I made a few trips
18 down there to the rig while they were rigging
19 up.

20 Q Yeah.

21 A But they didn't -- they hadn't
22 started drilling by the time I got out of
23 there. They were still in the rigging up
24 process.

25 Q Okay. And after you both left,
26 especially after you left since you left
27 later, Mr. Walzel, did Boots & Coots
28 recommend any additional well kill attempts?

1 A No.

2 WITNESS KOPECKY: A I have no
3 knowledge either of that.

4 Q Do you know if SoCalGas tried any
5 additional well kill attempts after you both
6 left?

7 WITNESS WALZEL: A No. As I recall,
8 there was no more. I mean after the last one
9 we did, the decision was made to go in the,
10 you know, relief well.

11 Q Thank you.

12 MR. SHER: Can we go off the record?

13 (Off the record.)

14 (Whereupon, at the hour of 12:00
15 p.m., a recess was taken until 1:00
16 p.m.)]

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1 AFTERNOON SESSION - 1:10 P.M.

2 * * * * *

3 EXAMINATION (resumed)

4 BY MR. GRUEN:

5 Q So a couple points of
6 clarification, I think before, during this
7 morning, you'd mentioned that Danny Clayton
8 was the team lead?

9 WITNESS WALZEL: A Uh-huh.

10 Q What does that mean being the team
11 lead? What did he do in his role?

12 WITNESS KOPECKY: A He communicates
13 with the client directly, and coordinates a
14 plan with the client, and then we would
15 execute the plan.

16 Is that fair, Dan?

17 WITNESS WALZEL: A Yes.

18 Q Thank you.

19 Did Danny, on the Boots & Coots'
20 side, also talk to anyone else in order to
21 execute the plan?

22 MR. SHER: For clarification,
23 "Mr. Clayton"?

24 MR. GRUEN: Thank you, Danny Clayton.

25 Q Did you understand I meant Danny
26 Clayton?

27 WITNESS KOPECKY: A Yes.

28 Q So when you were doing your work,

1 you would report directly to Danny Clayton?

2 WITNESS WALZEL: A Correct.

3 Q And as far as you know, Danny
4 was -- basically, Danny was making the
5 decision on the Boots & Coots' side about how
6 to move forward; is that fair?

7 WITNESS WALZEL: A Yes.

8 WITNESS KOPECKY: A Yes.

9 MR. SHER: Clarify, with input from the
10 rest of the team?

11 WITNESS KOPECKY: A Correct.

12 WITNESS WALZEL: A Yes.

13 MR. GRUEN: Okay. That's helpful.

14 Q Given the time you were out there
15 and what your experience was on the well-kill
16 attempts on SS-25, do you think that Southern
17 California Gas Company could have seen the
18 incident coming beforehand?

19 WITNESS WALZEL: A I don't believe so.

20 WITNESS KOPECKY: A I don't believe
21 there was any way to see that.

22 Q Okay. And that's true even if you
23 had been in their shoes, given all the
24 experience that you have, would you have been
25 able to see it coming beforehand?

26 WITNESS KOPECKY: A No.

27 Q Do you agree?

28 WITNESS WALZEL: A No.

1 Q That makes sense. I just want to
2 ask you a little bit about what you think
3 caused the incident there to best of your
4 knowledge. So given your experience and
5 background, not only with wells in general,
6 but with what happened on SS-25, to the best
7 of your knowledge, what do you think caused
8 the incident?

9 WITNESS WALZEL: A I can't comment on
10 what caused it. When we got through, there
11 was a hole in the tubulars somewhere, but as
12 far as what caused it, we weren't -- that
13 wasn't -- we didn't look into what caused it.

14 Q Okay. That's fair.

15 Anything to add?

16 WITNESS KOPECKY: A No. I agree.

17 Q Have you seen any pictures of Well
18 SS-25 since the incident?

19 WITNESS WALZEL: A No.

20 WITNESS KOPECKY: A No, I have not.

21 Q Okay. And that includes any
22 pictures of any of the tubing or the casing
23 that's been removed from the well, you
24 haven't seen anything?

25 WITNESS KOPECKY: A No, sir. I have
26 not.

27 WITNESS WALZEL: A No.

28 Q Thank you. This is a set of

1 questions. I want to understand about some
2 of the earlier well-kill attempts and if
3 those could have damaged the well or hurt the
4 chances of the later well-kill attempts
5 succeeding.

6 So once the first well-kill attempt
7 didn't work, how did that impact the second
8 well-kill attempt?

9 WITNESS WALZEL: A Well, the first
10 one, I don't remember how many barrels we
11 pumped total. As I recall, we shutdown. I
12 recall we shutdown early, and regrouped to
13 talk about it because things weren't going
14 as, you know -- to talk about what we seen
15 before continuing on.

16 Q Okay.

17 A And then on the second one, you
18 know, I think the fluid weights stayed the
19 same. I mean, I don't think we changed fluid
20 weights because we had already come up with
21 that number. There was Barite pill that was
22 going to be pumped at the end, and maybe
23 those volumes changed. Maybe one time we
24 didn't pump a Barite pill, but as far as
25 hurting the well, you know, I didn't see
26 anything from -- from pump pressures or
27 anything to say that anything within the well
28 changed. The only thing that changed was the

1 area, the area around the well.

2 You know, initially there was just
3 gas, you know, coming, you know, various
4 places around the pad. And then after one of
5 those pumped jobs -- might have been the
6 second one, but, anyway, all the gas was
7 coming up around the well, and blew the dirt
8 up from around the well, and we had to go
9 secure the well to keep it from -- stable
10 and, but that was the only thing I observed
11 to change was the area around the well.

12 Q When you observed the change in the
13 area around the well, was that after the
14 first Boots & Coots' well-kill attempt?

15 A I don't recall if it was after the
16 first or maybe the second one.

17 WITNESS KOPECKY: A I agree.

18 Q You agree?

19 WITNESS KOPECKY: A What I mean is I
20 don't recall if it was the first or second
21 well-kill attempt when the ground
22 deteriorated.

23 Q I see. Okay. Do you have any idea
24 why the ground deteriorated after the first
25 or second well-kill attempt?

26 WITNESS WALZEL: A I mean, I can't --
27 I can't say why, other than we were pumping
28 fluid in there at, you know, whatever rate we

1 were pumping, you know, and it'd circulate
2 mud up, and, you know, it's going to the path
3 of the least resistance and made its own
4 path.

5 Q Anything?

6 WITNESS KOPECKY: A I agree.

7 MR. SHER: Clarification?

8 MR. GRUEN: Okay.

9

10 EXAMINATION

11 BY MR. SHER:

12 Q Does that mean as your pumping down
13 through the well, the fluids are escaping at
14 some point from the tube where maybe there's
15 a hole where the gas was going out and that's
16 coming -- that's causing erosion around the
17 well?

18 WITNESS KOPECKY: A Well, it was
19 coming to the surface, some of your fluids.

20 Q Okay.

21 WITNESS KOPECKY: A Not all would
22 come.

23 WITNESS WALZEL: A Right. There's no
24 way to tell like we pumped 800 barrels and we
25 got 600 back because the return for his
26 company. Out and around the well, there was
27 no way to measure.

28 WITNESS KOPECKY: A No time --

1 WITNESS WALZEL: A No way to measure.

2 WITNESS KOPECKY: A -- capture.

3 WITNESS WALZEL: A Losing to the
4 formation.

5 Q I went down to the wellsite and
6 there was just a big hole and lots of oil
7 residue and so forth. So the liquid that was
8 getting pumped was coming up and caught in
9 that earth around --

10 WITNESS KOPECKY: A Yes, sir.

11 WITNESS WALZEL: A Right. We were
12 pumping down the tubing, and it was coming
13 out of the tubing because we did set a plug
14 in the tube and then perforated it; so it was
15 going out the perforations, up the casing,
16 and then exiting wherever the hole was in the
17 casing.

18 MR. SHER: Okay. Thank you.

19

20 EXAMINATION (resumed)

21 BY MR. GRUEN:

22 Q What do you think -- what did it
23 look like was coming out of the ground?

24 WITNESS WALZEL: A The fluids we were
25 pumping in and gas.

26 Q Okay. How far were they going when
27 you were out there looking at them coming
28 out?

1 WITNESS WALZEL: A How far was what
2 going?

3 Q The fluid and the gas.

4 WITNESS WALZEL: A The fluid was, if I
5 recall, it was coming up from around the well
6 and then there was some trenches, catch pits,
7 and it was going there and they were
8 collecting it from there.

9 Q Was it shooting up into the air or
10 was it just kind of running along the ground?
11 Or what did look like?

12 WITNESS WALZEL: A with the gas, it
13 was -- I don't have a word to describe it,
14 but there was some mud coming up.

15 WITNESS KOPECKY: A Right.

16 WITNESS WALZEL: A As you're pumping
17 the gas you're -- the activity of the gas
18 because you're pumping on it, but just the
19 gas breaking out through the mud. It was
20 coming up out of the cellar. Call it the
21 cellar there around the well.

22 WITNESS KOPECKY: A Percolating, kind
23 of.

24 Q Okay. Okay. All right. So I
25 think just running through those from maybe
26 the second to the third - let's say - I think
27 you mentioned, Mr. Kopecky, three to five
28 attempts. I'll assume just for the sake of

1 asking questions - and maybe I'm not quite
2 right - it's maybe five attempts, and just
3 for purposes of asking you what you noticed
4 in terms of the changes from the second to
5 the third attempt, to the third to fourth,
6 and the fourth to fifth. Does that make
7 sense?

8 So I'm just trying to get a sense
9 of how things -- what impacts to the well the
10 second attempt had, for example.

11 So anything that you noticed that
12 was changing or damaging the well from the
13 second --

14 WITNESS KOPECKY: A Well, as Danny
15 mentioned, we didn't notice any changes to
16 the well, and, of course, my changes would be
17 visually because I was located at the well.

18 The only changes that were noted
19 were the cratering of the location around the
20 well. And, again, I think -- I think there
21 were probably -- I said three to five. I
22 really think it may have been four, but I'm
23 not sure, but I think it was probably after
24 the second that we had to move our pump
25 equipment and all further up the hill to get
26 it off the location because it was deemed
27 unstable, if you will. We didn't know how
28 much erosion was going to continue on the

1 next kill attempt; so we just physically had
2 to move everything.

3 Q Did you notice the cratering
4 continue as you moved to the later attempts,
5 to the third and fourth attempt?

6 WITNESS WALZEL: A Well, after each,
7 you know, after each attempt, the crater
8 might have grew just a little bit because,
9 you know, you're introducing liquids, and,
10 you know, its going to erode more than just
11 if it's gas. So, you know, the crater got a
12 little bigger each time.

13 Q How did that change what you did in
14 terms of the kill attempts as the crater
15 grew?

16 WITNESS KOPECKY: A Well, we -- and I
17 don't recall if it was after the first kill
18 attempt, but we strengthened the catch pits
19 and got equipment in to create more berms, if
20 you will, more levies to direct any flow we
21 had from the pumping. And, of course, we
22 had, you know, extensive monitoring, gas
23 monitoring, and I don't know if that covered
24 everything.

25 WITNESS WALZEL: A Yeah. And also
26 in-between whether it was the first and
27 second or the second to third, we had to
28 get -- well, we got all the logging tools,

1 you know, the logging equipment to run the
2 noise tamp and the spinner, and we attempted
3 a gyro. We ran a gyro, too, and that was
4 for, you know, if we lost the well, we would
5 have an accurate survey for the relief well
6 drill, you know, as a contingency.

7 And before the -- it was after one
8 of those kill attempts, you know, we had, you
9 know, fluid in the tube. And, anyway, ice
10 formed a plug in the tube. And so we had to
11 get a cold tube and heat it to go through the
12 ice plugging, or the ice had formed in the
13 tube so we could gain access to run our logs.

14 MR. SHER: Would ice have formed
15 because of the cooling gas?

16 WITNESS WALZEL: A Correct.

17 MR. GRUEN: Q So was ice forming --
18 was more ice forming in the later well-kill
19 attempts compared to the earlier ones?

20 WITNESS WALZEL: A I don't -- there
21 was only one time we had to get ice out of
22 the tubing. Now, whether there was anything
23 different going on, I can't say other than
24 after the second attempt or third attempt,
25 there was still a column of fluid in the tube
26 and that froze.

27 Q Okay.

28 WITNESS WALZEL: A You know, after all

1 the other ones, all the fluid might have left
2 the tubing and there wasn't any liquid left
3 to freeze there.

4 Q Anything you want to add,
5 Mr. Kopecky?

6 WITNESS KOPECKY: A No.

7 MR. BRUNO: Darryl, if I may?

8 MR. GRUEN: Yes.

9 EXAMINATION

10 BY MR. BRUNO:

11 Q Did SoCalGas indicate any ice plug
12 before your arrival or once you got on board
13 before the first Boots & Coots' well-kill
14 attempt?

15 WITNESS KOPECKY: A Not to my
16 knowledge.

17 WITNESS WALZEL: A I don't recall any
18 discussions about ice plugs.

19 Q Am I right to gather that the --
20 it's the kill fluid that froze with the
21 combination of the leak?

22 WITNESS KOPECKY: A It could have been
23 kill fluid and well-bore fluid.

24 WITNESS WALZEL: A Right. After one
25 of the pump jobs, you know, the only thing
26 that would have been in the tubing would have
27 been the fluid we pumped; so it would have
28 been the kill fluid.

1 Q Okay. And then if I may, I think
2 Mr. Gruen hit on this, but the erosion that
3 occurred around wellhead, your kill attempts,
4 your subsequent kill attempts, those weren't
5 modified; right?

6 You moved equipment and whatnot,
7 but you didn't have to change your procedures
8 or did you do anything different that absent
9 erosion you wouldn't have done?

10 In other words, did you execute the
11 optimal plan that Boots & Coots wanted to?

12 WITNESS WALZEL: A Yes.

13 Q Did you have everything you needed
14 to do at your job?

15 WITNESS WALZEL: A Yes.

16 Q And that includes all the
17 information from SoCalGas; did you have all
18 the information you needed from SoCalGas?

19 A Yes.

20 Q What about real time information;
21 in other words, from the first kill attempt
22 and subsequent, just talk about what you're
23 learning a little more. I think you said you
24 shutdown at one point and you had a
25 conversation?

26 WITNESS WALZEL: A Right.

27 Q That appears to be typical. Like
28 you would -- real-time information you would

1 incorporate that into your plan; am I right
2 in assuming you incorporate everything; in
3 other words, what went wrong on the first one
4 and how do we adjust the second one?

5 WITNESS WALZEL: A I mean, nothing
6 went wrong, you know. Just the observations
7 of, you know, when we pumped mud down the
8 tubing, it -- we got it back. You know, we
9 could see it coming out of the well way
10 before it was expected to.

11 You know, the time that it took for
12 mud -- I call it good returns, but a good
13 amount of returns coming back from the well.
14 That came a lot later than what we figured;
15 so, you know, it was just observations like
16 that. And then one time we pumped down the
17 annulus, and all we -- we tried to pump
18 plugging material. We got it back right --
19 and it came right out of the ground.

20 Those were just the observations
21 that we saw, you know, and any real time we
22 would have pump pressures.

23 Q And all the real-time information
24 you just described, had you seen something
25 like that before on a natural gas reservoir
26 storage feel?

27 A A blowout?

28 Q Just the conditions, not exactly

1 matching what had you anticipated.

2 WITNESS WALZEL: A Oh, every job is
3 that way.

4 Q So there was nothing really
5 different then about SS-25; the kill attempts
6 I'm talking about.

7 WITNESS WALZEL: A I mean, not it
8 comparing to others, but, you know, a lot of
9 time you don't know the whole -- what the
10 pieces of the puzzle are down below the
11 ground until you kill the well. So a lot of
12 times its, you know, running your logs. It's
13 a process of elimination -- not elimination.
14 You try one thing, okay. Try something else,
15 and, you know, so but -- I mean, it looked
16 just like any gas release from an oil well.

17 Q And that's true all the way from
18 the beginning to the last kill attempt?

19 A Yes.

20 EXAMINATION

21 BY MR. SHER:

22 Q With regards to the formula that
23 was used to figure out how much weight or
24 pressure you could push down the kill
25 materials, does that make sense?

26 WITNESS WALZEL: A That wasn't a
27 formula, just the wellhead has a pressure
28 rating of 5,000 PSI.

1 Q So then in order to figure out the
2 mud weight, there a formula one uses that has
3 inputs. You talked about the pressure, the
4 length of the column.

5 Does one take a look at the inputs
6 after different kill attempts to see maybe if
7 our inputs were not right, and by "our
8 inputs" I mean SoCalGas inputs.

9 WITNESS KOPECKY: A You mean like by
10 the depth of the well or something of that
11 nature?

12 Q Yes. You stopped your meeting
13 early because the first well-kill attempt
14 didn't work and you break and have a meeting
15 and I'm assuming everyone is brainstorming as
16 to, Okay, it didn't work. What do we think
17 we need to do next to try and kill the well.
18 Does one relook at the data that was inputted
19 into that formula?

20 WITNESS WALZEL: A Well, I mean, the
21 reservoir pressure wouldn't have changed, you
22 know. I mean, it was -- decreased slowly
23 over the whole time we were there; so it
24 wouldn't have changed, and they would keep
25 the record of what the pressure in the
26 reservoir was the whole time.

27 Q And then the amount of gas in the
28 column, would that have been a variable that

1 would change as one factor?

2 WITNESS WALZEL: A In the block well
3 or just the normal -- or just another well in
4 the field that they might have been reading
5 pressure off of?

6 Q Let's go with SS-25 and the blowout
7 well. What would you expect the amount of
8 gas in the column, that figure that gets
9 inputted into the formula, to change over
10 each well-kill attempt or would you expect
11 that data to remain the same?

12 WITNESS WALZEL: A Well, yeah, the
13 column in -- if it would have been SS-25, it
14 would have been the gas blowing out, you
15 know, from whatever hole and that would be
16 dependent on the, you know, if the flow path
17 changes or if the reservoir pressure
18 decreases, and there's a lot of variables in
19 that. I was just talking about the column of
20 gas in a static well.

21 You know, if you have a pressure,
22 you know it's 100 percent gas, you calculate
23 the reservoir pressure, but, I mean, yeah,
24 the amount of gas flowing, I mean, it
25 wouldn't have been constant every second of
26 every day.

27 Q And please understand, I think, for
28 all of us none of our questions are meant to

1 undercut or question your professionalism and
2 expertise and experience. It's not our
3 intent. We are trying to understand what
4 happened, we're lay people.

5 So to me what I'm hearing is that
6 because every well is different, the basic
7 formula may not work. If your inputs are
8 completely different, how do you figure
9 out -- I'm sorry if I'm muddling things here.

10 If you couldn't -- I apologize,
11 guys.

12 MR. GRUEN: Take your time.

13 MR. SHER: Q The relief well
14 ultimately stopped the leak; correct?

15 WITNESS WALZEL: A Correct.

16 Q In your experience working on
17 natural gas storage fields that have once
18 been oil production fields, to the degree
19 you've had other experience --

20 WITNESS WALZEL: A Uh-huh.

21 Q -- with blowouts, was SS-25 unique
22 in that you couldn't stop that -- one could
23 not stop that from the top?

24 WITNESS WALZEL: A Can you repeat
25 that?

26 Q Sure. The understanding that every
27 field is different and that even wells on a
28 lease may be different, different geology, et

1 cetera, but I would expect that generally the
2 Boots & Coots of the world, the Halliburtons,
3 the folks that have experience killing wells
4 are generally successful because we don't
5 have all these wells all over the world that
6 are leaking as far as we know, but in this
7 instance, it took a number of attempts to try
8 and do a top kill and it just didn't work.

9 WITNESS WALZEL: A Right.

10 Q So in looking back, why do you
11 think the top kills didn't work?

12 WITNESS WALZEL: A Well, I mean, they
13 didn't work because we weren't able to get
14 enough hydrostatic in the well bore to be
15 equal to or higher than the reservoir
16 pressure, you know.

17 It comes down to was, you know, the
18 gas velocity exiting well bore, we couldn't
19 overcome with the limitations that we had for
20 pump rates, which were tied to our pressure,
21 which is tied to the wellhead equipment, and,
22 you know, there was still a lot of unknowns
23 at that time: Where the hole might be;
24 what -- where the gas was coming into the
25 well and leaving the tube, and, you know,
26 there's still some unknowns, but it all comes
27 down to, could we pump fast enough and not
28 exceed our pressures of the wellhead.

1 Q Based on the experience of SS-25
2 and understanding limitations that the
3 wellhead was only able to take 5,000 PSI, for
4 example, would a future remedy, if we're
5 thinking about future remedies and trying to
6 prevent these kinds of leaks requiring a
7 wellhead that could take 10,000 PSI? Would
8 that be something as a remedy you guys might
9 suggest?

10 WITNESS WALZEL: A I mean, I can't --

11 WITNESS KOPECKY: A We can't honestly
12 say or say at all that had we been able to
13 pump at a higher rate we would have been
14 successful. We're not sure. We weren't able
15 to.

16 Q Part of what we need to do as a
17 Commission is figure out how we prevent these
18 kinds of leaks in the future. So we don't
19 have the kind of expertise you do, and so it
20 would be very helpful for us to understand
21 maybe we need to require our gas operators to
22 have equipment that can take a different pump
23 rate.

24 Does that make sense to you?

25 WITNESS WALZEL: A I mean, there was
26 already a hole somewhere; so, you know, I
27 can't really comment on, you know, high
28 pressure wellheads, but, you know, the

1 wellhead was five. The casing, you know,
2 whatever. You just don't look at the
3 wellhead. It's the casing, design and
4 everything. So you know, I don't really know
5 if I can comment on that.

6 EXAMINATION

7 BY MR. BRUNO:

8 Q Mr. Walzel, what about reservoir
9 pressure itself?

10 WITNESS WALZEL: A Uh-huh.

11 Q Had you -- was the reservoir
12 pressure that you were given was that
13 different in any way or is that the pretty
14 standard typical pressure you might -- was it
15 extraordinary the pressure?

16 WITNESS WALZEL: A No. No.

17 WITNESS KOPECKY: A No.

18 WITNESS WALZEL: A I mean, I'm not
19 a -- I don't have any history of the rock
20 mechanics of the reservoir. As far as the
21 pressure, it didn't seem out of the ordinary.

22 Q And the pressure is proportional to
23 the working gas inventory?

24 WITNESS WALZEL: A Yes. The more gas
25 in there, the higher pressure you're going to
26 have.

27 Q So given, for instance, 86 billion
28 cubic feet of gas, which, I believe, is the

1 capacity at Aliso working gas. If you cut
2 that in had half and you're down to 43 or
3 give or take BCF, am I correct that a leak at
4 that reservoir pressure would be -- would it
5 be easier to develop a hydrostatic head to --

6 WITNESS WALZEL: A If it's a lower
7 pressure, yes.

8 Q Okay.

9 A Dependent on -- you know, still
10 dependent on the exit velocity, gas velocity
11 coming out of the well bore, too, but, yes,
12 if the reservoir pressure, it will take
13 lighter fluid, you know.

14 Q If I may, you know, just to make
15 sure I understand, going back to that first
16 kill attempt with the known reservoir
17 pressure, your team had everything they
18 needed on paper to overcome that pressure?

19 A Yes. If -- if -- I mean, we still
20 didn't know how the flow rate of the gas
21 coming out, but, you know, it was sufficient
22 fluid, and, again, we pumped on it, but
23 you're still limited to the pump rate, you
24 know.

25 Q How does one determine the flow
26 rate in a blowout?

27 A Well, there's a lot of complex
28 equations, you know. There's still a lot of

1 unknowns in the well bore. Where it's
2 exiting, but, you know, theoretically it
3 would be reservoir properties and pressures
4 -- reservoir properties, you get absolute
5 open flow.

6 Q So the flow rate deter- -- I guess
7 a number of factors can influence the flow
8 rate? Path of the gas if its changing?

9 A Right.

10 Q Is it possible to apply some
11 advance formula to get at the flow rate, if
12 you will, to make -- make a best estimate?

13 A Yeah, like I said, they all
14 calculate -- you can find an absolute open
15 flow rate. You know, that number right be in
16 the ballpark, might not be. There's so many
17 other variables that you don't -- there's lot
18 of blocks we don't even know what the -- you
19 know, what it's actually flowing until you
20 put it -- cap it and put it in diverter lines
21 and get pressures and whatnot.

22 That would have been the most --
23 that's one way we could figure it out if it
24 was 100 percent gas or whatever, but, you
25 know, still at the end of the day, it's -- if
26 we're going to pump, this is how fast we can
27 pump, and you know.

28 Q Right. So did Boots & Coots

1 calculate a flow rate?

2 A I don't recall if we did, or it was
3 given to us, you know. I didn't calculate
4 one.

5 Q Did Mr. Clayton, perhaps, calculate
6 one?

7 A No.

8 Q Would it be common for the
9 owner-operator to give you that piece of
10 information?

11 A Yeah, sometimes.

12 Q Again, my understanding is this is
13 something you calculate.

14 Let me back up. If there's no leak
15 and you're just flowing gas, you can
16 calculate a flow rate?

17 A Yeah, you'd a choke, and you'd go
18 through a choke, and you'd have upstream and
19 downstream pressure and choke size.

20 Q In that same situation, when you
21 have a leak and it finds a new path, you have
22 a different flow rate?

23 A The hole size is different.

24 Q So all those variables would affect
25 it.

26 A Right.

27 Q So that would have been something
28 that SoCalGas would have had to calculate

1 after the blowout?

2 A To get an estimate of the -- right.
3 Yeah. I mean, to get an accurate -- I say
4 accurate. To get another estimate of the gas
5 flow rate.

6 Q And that is a mathematical equation
7 or is that a physical measurement?

8 A It would be a calculation, you
9 know. You could physically do it if you
10 could put it in a pipe line and get two
11 pressure ratings and you know your pipe size,
12 you know, but we weren't able to do that.

13 Q So sort of a fixed volume and then
14 calculate --

15 A It would be more of a fixed area
16 and length of flow in it and a pressure drop,
17 and you could get a calculation on.

18 Q Got it.

19 Do you know if that was done by
20 SoCalGas at least or would that help you at
21 all?

22 A It was impossible.

23 Q Okay. So then you're limited to a
24 mathematical estimation?

25 A Right.

26 Q Do you know if that was done by
27 SoCalGas?

28 A I can't say if it was or if it

1 wasn't.

2 Q Okay. How was -- if I may, how was
3 the morale of the Boots and Coots kill team
4 over time, the first kill attempt, the second
5 first kill attempt, I mean, or the team
6 becoming discouraged or is it just par for
7 the course?

8 A No. I don't think -- there wasn't
9 any -- morale stayed high, the same. Yeah,
10 it's frustrating that it didn't die, but it
11 didn't affect our --

12 WITNESS KOPECKY: A Work duties.

13 WITNESS WALZEL: A -- morale.

14 Q Okay. Then when the decision was
15 made for a relief well, was it understood
16 amongst the team that you tried everything in
17 your arsenal and that was the next step?

18 WITNESS WALZEL: A Right. Yes. It
19 was the next step. It was the right
20 decision. You know, we tried. We don't want
21 to make it any worse here; so let's drill a
22 relief well and intercept at the bottom of
23 the well.

24 Q Yes, sir. I understand. Thank
25 you. What about mechanical valves on the
26 well? Did Boots & Coots check to see if
27 there were any subsurface safety valves on
28 the well as part of the planning?

1 WITNESS WALZEL: A I mean, we would
2 have looked at the well design and note it.
3 If it was in the well design, then it would
4 have been in the well, you know.

5 WITNESS KOPECKY: A To my
6 recollection, there was no subsurface safety
7 valve.

8 Q That's consistent with my
9 understanding too. I guess, my question is,
10 had SS-25 had a subsurface safety valve,
11 would you have attempted to use that before
12 first top-kill attempt?

13 WITNESS WALZEL: A Well, the safety
14 valve would have been in the tubing, and the
15 problem was on the casing, and so shutting it
16 on the tubing wouldn't have affected the gas
17 exiting on the casing.

18 Q Is there a valve -- is there any
19 type of valve, based on your experience, that
20 would have been effective had it been
21 designed in?

22 WITNESS KOPECKY: A No.

23 WITNESS WALZEL: A No. Not to prevent
24 a leak in the casing.

25 EXAMINATION

26 BY MR. SHER:

27 Q Question on that: So we have the
28 reservoir at the bottom about 8,000-odd-feet

1 deep, and then we have the casing, and inside
2 the casing we have the tubing; is that
3 correct?

4 WITNESS WALZEL: A Correct.

5 Q Is it normal for gas to come up the
6 casing, or does gas come up the casing
7 because the owner-operator is using both to
8 withdraw?

9 WITNESS WALZEL: A Depending on the
10 designs, but, I mean, we've seen, you know,
11 different parts of world that have high
12 production. They'll produce from the casing
13 and tubing, or, you know, there's no set
14 design rule, I guess.

15 Q With regards to SS-25, do you know
16 whether the owner-operator was using both the
17 casing and the tubing to withdraw or inject?

18 WITNESS KOPECKY: A I believe both.

19 WITNESS WALZEL: A Yeah. I mean, I
20 believe it was both.]

21 Q And I really appreciate -- we
22 didn't understand the safety valve would only
23 be on the tubing. So I really appreciate
24 that information.

25 A Right.

26 Q Just on that note, just to make
27 sure I understand and drill this into my
28 head, if you had a subsurface safety valve on

1 SS-25 and you were flowing through the tubing
2 and the casing, it would not be effective.

3 A It wouldn't have prevented the gas
4 from exiting the wellbore in this case --
5 scenario. The subsurface safety valve is in
6 the tubing. So say your wellhead gets
7 knocked off or your tree gets knocked off,
8 you know, you shut it and it's done, but if
9 it's exiting somewhere else in the well, it's
10 not going to --

11 WITNESS KOPECKY: A And it's typically
12 not located very deep in the tubing string.

13 Q In your experience, can you give an
14 idea of where you find them, if you can?

15 A I want to say 200 to 700 feet.

16 Q Okay.

17 A Best recollection.

18 Q So once an operator is -- decided
19 to flow through tubing and casing, there is
20 no mechanical equipment to not -- to mitigate
21 the consequences of a leak -- in other words,
22 once a leak happens or a blowout happens,
23 there is no mechanical valve or anything that
24 could shut that in, if you will? It's
25 basically top kill or relief well at that
26 point?

27 A I don't recall if the well had a
28 packer.

1 MR. SHER: Q what is a packer? Is it
2 P-A-C-K-E-R?

3 WITNESS WALZEL: A Yes.

4 WITNESS KOPECKY: A P-A-C-K-E-R.

5 WITNESS WALZEL: A Like when you run
6 tubing, there's a packer that goes around the
7 tubing and seals off between the casing, but
8 I don't recall if there was a packer or not
9 but -- how they were -- how it would have
10 been flowed both ways. But a packer would
11 just seal off around the tubing and the
12 casing. So then all your flow, if you have
13 integrity, is just up and down the tubing.

14 Q Does one install the packer when
15 one drills the well?

16 WITNESS KOPECKY: A No.

17 WITNESS WALZEL: A No.

18 Q So can you install a packer at any
19 point in the life of the well?

20 A Well, there's packers you can run
21 in casing and storm packers, test packers.
22 Yeah. I mean, there is bridge plugs and
23 stuff, but you know, their application, it
24 wouldn't be --

25 WITNESS KOPECKY: A It would be
26 installed during the completion phase or
27 work-over phase.

28 WITNESS WALZEL: A Yeah, the tubing

1 packer would have been, yeah.

2 Q I'm sorry. And the packer would,
3 in the case of Aliso, may be as deep as
4 8,000. So it's close to the bottom weight
5 reservoir?

6 WITNESS WALZEL: A Right.

7 MR. SHER: Thank you.

8 MS. ROSE: Would having a packer in the
9 well preclude you from using the casing to
10 extract gas?

11 WITNESS WALZEL: A Not necessarily.
12 It depends on your tubing design, you know,
13 if you have a sleeve you can open or close,
14 you know. Yeah, I mean, if there wasn't any
15 sleeve, but typically, there's a sliding
16 sleeve or something in there for various
17 reasons, but yeah. No, it wouldn't a hundred
18 percent isolate them.

19 MS. ROSE: Okay.

20 MR. SHER: Q Have people, just in
21 general, talked to you guys based on your
22 experience and expertise in -- whether it's
23 offering you a chance to give a training or
24 one of these classes that you guys take to
25 keep up to speed with what's going on in the
26 industry. Because you guys have tons of
27 experience. So are you able to offer advice
28 as to -- to owners and operators or

1 regulators as to how to be as safe as
2 possible in your well design so you can avoid
3 leaks?

4 A Well, I mean, we've been asked, you
5 know, by operators to come in and look at
6 fields or whatever and give advice on, like,
7 if there are drilling wells in urban areas.
8 We've given advice on that. Or if we're
9 asked to speak on a topic, then, yeah, we do.

10 WITNESS KOPECKY: A Or which they do a
11 lot nowadays is multiple well pads. They
12 invite us out at times to give them
13 recommendations on the layout in -- to reduce
14 the chance of multiple wells on fire at one
15 time, that type of thing.

16 EXAMINATION (resumed)

17 BY MR. GRUEN:

18 Q A follow-up on the flow rate you
19 were talking about earlier. I get you. It
20 sounds like if it's short of it being a
21 static well you may have some uncertainty
22 about what the flow rate is? Did I get that
23 part right?

24 WITNESS WALZEL: A Right. Yes.

25 Q Thank you. So I also understood
26 you had mathematical estimations in the case
27 of SS-25 because you obviously don't have a
28 static situation there, right? Did I get

1 that part right?

2 A Yeah. When I said mathematical, a
3 lot of times a number will be calculated with
4 this pressure, this tubing and casing design.
5 If the wellhead gets knocked off, this is how
6 much gas theoretically will come out.

7 Q Yeah. And would you expect that
8 number to change over time after an
9 unsuccessful well-kill attempt?

10 A It will change over time if the
11 reservoir pressure changes.

12 Q Here, SoCalGas was -- I think you
13 said SoCalGas was reducing reservoir
14 pressure?

15 A Yes. They were.

16 Q So that was being counted for in
17 the change of the flow rate calculation?

18 A Yes. I mean, if you were to
19 calculate, yeah, it would be used. Yeah.

20 Q You recall getting changes in the
21 flow rate calculations based on the change in
22 the reservoir?

23 A I mean, it wasn't calculated --
24 it's not something that would have been
25 calculated daily or hourly -- I mean, since
26 know one knows how much was coming out to
27 begin with.

28 Q Yeah. I get you. I get you. So

1 what about too just with the gas escaping
2 through the crater and that changed -- that's
3 a change too just in terms of you go from one
4 well-kill attempt to the next? How -- if at
5 all, how would that change the flow rate
6 calculation?

7 A I'm not following.

8 Q If you're not following it, it
9 probably means I'm not getting it right. So
10 just really quickly would the flow rate --
11 would you expect the flow rate to change
12 after the first well-kill attempt?

13 A I wouldn't expect it to change much
14 at all. I mean, the reservoir pressure
15 hasn't changed probably hardly at all, you
16 know, in a day. The gas just -- there was
17 more gas coming up around the well as opposed
18 to coming out little cracks elsewhere.
19 So ...

20 Q Just for the sake of discussion,
21 what if the reservoir pressure stayed the
22 same?

23 A If nothing in the wellbore changes,
24 then flow rate would stay the same.

25 Q So if something in the wellbore
26 changed -- could something in the wellbore
27 change after the first well-kill attempt?

28 A Not to my knowledge. The only

1 thing that changed was the earth around the
2 well.

3 Q So that's not the same thing --
4 could that -- did you have a concern that
5 that meant the wellbore casing -- that the
6 wellbore was changing because of the change
7 in the earth?

8 A No. No.

9 MR. GRUEN: Did I -- do you want to
10 follow-up on that?

11 EXAMINATION

12 BY MR. BRUNO:

13 Q Yeah. Well, I just want to ask
14 generally, in your opinion, being out there,
15 did the leak change like -- or just the path?
16 Do you think that more gas was coming out
17 after the first well-kill attempt over time?
18 Did the leak get worse? Did the blowout get
19 worse?

20 A I can't say it got worse or better,
21 because originally it was going out and
22 coming up in several places, you know.

23 Q Sure.

24 A After it -- the crater formed
25 around the well, all that stopped, and it was
26 all coming up around the well. Whether that
27 was more or less, I can't say.

28 Q So the path changed --

1 A It was isolated. It was all
2 contained in one area instead of coming up in
3 several areas. You know.

4 MR. BRUNO: Right. Okay. Thank you.
5 Thank you, sir.

6 EXAMINATION (resumed)

7 BY MR. GRUEN:

8 Q Just a couple of questions about
9 what was in the well during the attempt. So
10 I think you had mentioned mud and perhaps
11 brine being used?

12 A Mm-hmm.

13 Q One of the things we had looked at
14 was something about a junk shot?

15 A Yes.

16 Q Can you talk about that? Was that
17 used, and if so, what was in it?

18 A Right. So a lot of times we'll
19 pump a junk shot, which is junk -- rope, golf
20 balls --

21 WITNESS KOPECKY: A Rubber.

22 WITNESS WALZEL: A Rubber. Just
23 plugging material. That day, when we did
24 that, we tried -- we did pump it down the
25 casing in an attempt to plug the hole in the
26 casing, but I don't know how much -- how many
27 we did, but I mean, we pumped golf balls and
28 big materials just down the casing. As soon

1 as we pumped it, it was already shooting out
2 of the ground, meaning it's exiting more to
3 the surface of the well probably. We were
4 getting it back really quick.

5 MS. ROSE: The golf balls?

6 WITNESS WALZEL: A Golf balls.

7 WITNESS KOPECKY: A So we determined
8 that the hole was at least -- well, it also
9 let us know that the hole was at least the
10 size of a golf ball.

11 WITNESS WALZEL: A Right.

12 MR. GRUEN: Q Yeah. I follow your
13 logic there. Any indications could you get
14 from the junk shot of how big the hole was --

15 WITNESS KOPECKY: A No.

16 Q -- aside from that? Okay.

17 I guess the other thing I'm
18 gathering is sometimes a junk shot works?

19 WITNESS WALZEL: A Oh, yes.

20 Q How often -- how many junk shots
21 did you try?

22 A I can't -- I can't recall the
23 specific number, but we'd pump several -- we
24 loaded it several times that day, but I mean,
25 we just couldn't get anything to plug the
26 hole. The idea would be to plug the hole,
27 keep pumping down the casing into the well,
28 but nothing was plugging the hole.

1 Q Yeah. I follow you. Okay. And
2 after the junk shot didn't work -- or the
3 junk shots -- maybe I guess it was a couple
4 times. Did that change how you tried to kill
5 the well after that?

6 A No.

7 Q Okay. So you're back to mud or
8 brine at that point?

9 A Right.

10 Q One thing in our notes too -- I
11 think we just wanted to clarify, and I want
12 to echo Nicholas. We're not -- this is
13 respect for your professionalism today and
14 the answers you've given us. We're not
15 trying to undermine it in asking this. We're
16 trying to just understand, as lay people,
17 what happened.

18 So I note that it's three years
19 ago. I'm just going to raise this. One
20 thing in our notes is that there was another
21 well-kill attempt. It looks like there was a
22 top well-kill attempt on December 22nd or so.
23 Does that ring a bell -- or maybe our notes
24 are wrong. It could well be.

25 A I wasn't there, but I don't recall
26 ever hearing about another one on -- that
27 late.

28 Q Okay.

1 A Unless that was -- I don't even
2 remember what day it got intercepted or --
3 no. I don't have any knowledge of one on
4 December 22nd.

5 Q Understood. Thank you.

6 WITNESS KOPECKY: A I was already -- I
7 was on another job, and I had lost contact
8 with anyone affiliated with it. So I'm not
9 aware of it.

10 Q That's helpful.

11 EXAMINATION

12 BY MR. BRUNO:

13 Q Who relieved you from Boots &
14 Coots? Was there another --

15 WITNESS KOPECKY: A Yes, my
16 recollection it was Juan Moran.

17 Q Would you mind spelling that, sir,
18 or is it "Marin"?

19 A Let me make sure it Moran -- it was
20 Juan Moran or Travis Martel. I don't recall
21 which, but -- spell it? Is that what --

22 Q I was just trying to make sure I
23 understood the pronunciation.

24 A J-U-A-N M-O-R-A-N or Travis Martel,
25 M-A-R-T-E-L, and I don't recall which one
26 relieved me.

27 Q Thank you, Mr. Kopecky, and Mr.
28 Walzel, how about yourself? Were you

1 relieved by any Boots & Coots employees?

2 WITNESS WALZEL: A I was relieved --
3 there was Jim LaGrone and Rolly Gomez were
4 engineers for Boots & Coots after I left to
5 help with the relief well and activities at
6 SS-25.

7 Q Okay. Thank you, sir. J-I-M
8 L-A-G-R-O-N-E, R-O-L-L-Y G-O-M-E-Z.

9 MS. ROSE: And do you know if
10 Mr. Clayton stayed on, or was he also
11 relieved?

12 A He came home and then went back.

13 WITNESS KOPECKY: A And I do recall --
14 now that I mention it, I believe Travis
15 Martel relieved me, and Juan Moran, as the
16 senior well control specialist, I believe,
17 relieved Danny. And then Richard was in
18 there at some point.

19 WITNESS WALZEL: A Richard was there.
20 I believe Richard was -- relieved Danny.

21 MR. GRUEN: Can we seal the record.

22 EXAMINATION (resumed)

23 BY MR. GRUEN:

24 Q One thing -- I have an invoice here
25 that mentioned the two of you and Danny
26 Clayton and then Mike Baggett as well?

27 A Yes. He was our safety
28 representative.

1 Q Okay.

2 WITNESS KOPECKY: A I don't know at
3 what point we bought him, but it had to be
4 pretty quick.

5 WITNESS WALZEL: A It was quick. He
6 wasn't on the plane coming out with us, but
7 he arrived shortly thereafter.

8 Q How long was he with you?

9 WITNESS KOPECKY: A He was there when
10 I left.

11 WITNESS WALZEL: A He was there when
12 you left, but then there was a -- Patton came
13 and relieved him.

14 WITNESS KOPECKY: A Then he came back.

15 WITNESS WALZEL: A Then he came back.
16 So -- and I think he stayed pretty much for a
17 majority of the project.

18 MR. GRUEN: Let's take the seal off the
19 record for a second.

20 Q I'm going to ask you the same
21 question. Can you tell me how long Mike
22 Baggett stayed with you?

23 A I don't have a number of days.

24 Q Approximately. I'm asking the same
25 question as before.

26 A A month.

27 Q Okay.

28 A But then I believe he was there --

1 I was there a month, so he was there with me
2 probably about a month.

3 Q Okay. All right. And as safety
4 officer, what was his role?

5 A His main -- his role is to look out
6 after us. A lot of times companies we work
7 for don't want their personnel in the hot
8 zone. So as we're in the hot zone, then he
9 would be there for us and then also to work
10 with the customer and explain if we're doing
11 something a certain way that might not be
12 normal -- I'd say normal, explain why we're
13 doing it, enforce -- he was also there to
14 check people in and out of location and keep
15 track of the personnel on location.

16 Q Okay.

17 WITNESS KOPECKY: A Correct.

18 Q Thank you. Anything --

19 WITNESS WALZEL: A And gas monitoring.
20 He also would check the gas levels.

21 WITNESS KOPECKY: A One direction.

22 WITNESS WALZEL: A One direction. He
23 would actually be the first one to go up
24 every morning and check the LELs one
25 direction and permit the cranes to move in
26 and stuff like that.

27 WITNESS KOPECKY: A There would always
28 be two of us would go up --

1 WITNESS WALZEL: A Right, yeah.

2 Q I follow. Who else was -- if
3 anybody -- was it the four of you then? Was
4 there anyone else on the Boots & Coots team
5 during the -- when you both were there
6 on-site?

7 WITNESS KOPECKY: A Not to my
8 recollection, other than Danny. Danny --
9 Danny, myself and Mike.

10 WITNESS WALZEL: A Then there was --
11 well, there was another -- Mike Patton, he
12 was there -- he came for -- I don't remember
13 if he was there when you were there.

14 WITNESS KOPECKY: A No. Mike --
15 because they joined me in Azerbaijan. But if
16 you're asking who was there while I was there
17 or while Danny was there, yeah, there was
18 also -- Bud Curtis was later involved in the
19 project.

20 Q Okay. Yeah. And --

21 A Richard Hattenberg.

22 Q I heard Mike Patton, Bud Curtis,
23 Richard Hattenberg -- did I get that right?

24 A Richard Hattenberg.

25 Q Hattenberg. Okay.

26 A John was there at one point while I
27 was there liaising with SoCal engineers in
28 regards to relief wells.

1 Q So the court reporters are happy
2 with me, I'm going to ask you if you can
3 spell their names as best you can.

4 WITNESS WALZEL: A Richard,
5 R-I-C-H-A-R-D H-A-T-T-E-B-E-R-G, Bud Curtis,
6 B-U-D C-U-R-T-I-S.

7 WITNESS KOPECKY: A John.

8 WITNESS WALZEL: A J-O-H-N
9 H-A-T-T-E-N-B-E-R-G, Mike Patton, M-I-K-E
10 P-A-T-T-O-N, Bud Curtis, B-U-D C-U-R-T-I-S,
11 Travis Martel, T-R-A-V-I-S M-A-R-T-E-L.

12 MR. SHER: May we go off the record for
13 one sec?

14 (Off the record.)

15 MR. GRUEN: Let's go back on the
16 record. Thank you.

17 Q A couple other questions. In terms
18 of your -- you had talked about going into
19 the hot zone after a while -- earlier this
20 morning, rather. And just briefly, if you
21 can talk about how do you figure out the
22 limits of the hot zone?

23 WITNESS WALZEL: A Well, like for this
24 well, it was pretty much the whole location,
25 you know. There was one road going up to the
26 pad. So just everything was -- the whole
27 location was considered the hot zone.

28 WITNESS KOPECKY: A I recall, as

1 typical, yeah, it encompassed the entire
2 location, as Danny said. That's due to your
3 lower explosive limit readings out away from
4 the source.

5 Q So --

6 A When they start to decline, then
7 you get into your warm zone and that type of
8 thing.

9 Q So where the LEL is that a
10 potential for ignition, that's the edge of
11 the hot zone?

12 WITNESS WALZEL: A Yeah. That's one
13 way to define it, or if there's a well on
14 fire, it's -- you can use radiant heat, or
15 there's -- or just whatever factors they want
16 to use to set it up. But in this instance,
17 it was mainly just LELs.

18 Q And Mr. Kopecky, I think you were
19 talking about if the case -- in the case of a
20 well being on fire, how would you define the
21 hot zone? Sounds like you'd do it
22 differently?

23 WITNESS KOPECKY: A Oh, no. That's
24 what Danny was stating. With the radiant
25 heat, that would determine your hot zone to
26 your exclusion zones. But yeah, this was
27 determined by the LEL. But when you
28 mentioned -- I forget how you stated it, you

1 know. The end of the hot zone was at the
2 lower -- I don't remember how you stated it.

3 Q I'll do my best to restate it if I
4 can. What I think I was getting at is if
5 your LEL is just at a point where your LEL --
6 your lower explosive limit could result in
7 ignition, at that point, that would be the
8 edge of your hot zone?

9 WITNESS KOPECKY: A Well, not
10 necessarily. That's the point I wanted to
11 mention is that you would also have a safety
12 factor in that. You would move it out even
13 further.

14 Q I follow you. Okay. And in this
15 case -- so you were beyond the LEL limits --

16 A Correct.

17 Q In establishing your hot zone for
18 SS-25?

19 A Yes, sir.

20 Q I follow. Thank you both. And
21 then in terms of managing the hot zone and
22 who was in it, can you tell us the different
23 personnel that were allowed to enter the hot
24 zone?

25 WITNESS WALZEL: A Depending on the
26 operation going on but -- us, Boots & Coots.
27 The crane operator would be there, his
28 swamper. If we were doing wireline, then,

1 you know -- like when James and I were out
2 there, we would put their equipment on the
3 well, but they might be in their logging unit
4 upwind on location. There was a company that
5 had to pump iron and flow iron. They were,
6 you know -- there was occasions they were in
7 the hot zone.

8 WITNESS KOPECKY: A Also, anyone that
9 did have a legitimate reason to be in the hot
10 zone was always escorted by Boots & Coots and
11 stayed with them the entire time. They were
12 never left in there unattended.

13 Q Did that include SoCalGas
14 personnel?

15 WITNESS KOPECKY: A Correct. It did.

16 Q And I think, Mr. Walzel, you were
17 talking about some of the personnel. Those
18 might have been contractors.

19 WITNESS WALZEL: A Mm-hmm.

20 Q So were there -- can you talk about
21 the SoCalGas personnel -- personnel who were
22 in there with Boots & Coots at times?

23 A Well, I mean, several times they
24 would have a -- safety representatives up
25 there on the edge with our -- Mike Baggett or
26 whoever was our safety man. You know, just
27 various -- management coming in to look, you
28 know, things like that.

1 Q And what role did those individuals
2 have when they were going into the hot zone?

3 WITNESS WALZEL: A Observe. Just take
4 a look. They were safety men. Might do
5 safety things. But if it was SoCal people,
6 it was more or less just always just take a
7 look at what is going on.

8 WITNESS KOPECKY: A Or they may come
9 up with -- there were quite a few regulatory
10 agencies that need to have a visual. They
11 would be escorted in and a lot of times
12 accompanied by, as Danny mentioned, a SoCal
13 representative.

14 Q What were the reasons for Boots &
15 Coots to go into the hot zone?

16 WITNESS WALZEL: A When there was a --
17 for instance, like I mentioned, we wanted to
18 run the noise temp tools, then we would go
19 out to the well and make up the lubricator so
20 they could run their tools in the well. And
21 we did that a lot. You know, when we went in
22 to put cables to secure the wellhead, that
23 was another example. Just whenever there was
24 something necessary to -- run logs, rig up
25 pump iron, remove pump iron, you know, just
26 things like that.

27 WITNESS KOPECKY: A Close and open
28 valves.

1 WITNESS WALZEL: A Close and open
2 valves.

3 Q Thank you. Let me switch gears a
4 little bit to -- I think you had mentioned
5 that Brett Lane was incident commander?

6 A Yes.

7 Q Did I get that right? Okay. So
8 just in terms of communication with the
9 incident commander as you were being made
10 aware of the incident, what was -- can you
11 describe the communications that you had with
12 the incident commander as you were first
13 learning about the incident at SoCalGas at
14 Aliso?

15 WITNESS WALZEL: A I believe -- I
16 mean, we knew about it -- like I was
17 mentioning, he wasn't there the first few
18 days. So we already knew about it by the
19 time he showed up.

20 WITNESS KOPECKY: A I'm not aware who
21 was the incident commander when we arrived.

22 Q Okay.

23 MR. SHER: Q Would you have updated
24 the incident commander on sort of a daily
25 basis as to what was happening?

26 WITNESS WALZEL: A Yes. The
27 communications -- there was always an open
28 line to communication, talk to him in the

1 mornings, and it was an open dialogue, I
2 guess.

3 Q And I imagine once you learned
4 about the incident you were probably thinking
5 about how -- recommending how to fix the
6 incident?

7 A Yes.

8 Q So were you talking with the
9 incident commander about fixes?

10 A Yes.

11 WITNESS KOPECKY: A No, not I. Not
12 myself personally.

13 Q Mr. Walzel, can you tell us more
14 about what you told the incident commander --
15 what you shared with the incident commander?

16 WITNESS WALZEL: A Right. I mean, I
17 don't remember exactly what we talked about,
18 but it would have been, you know, options of,
19 you know, do we do this or -- you know, pump
20 this. You know, it would have been kind of
21 brainstorming different options and then pick
22 an option that -- the best option, you
23 know -- hope for the best results with the
24 least amount of risk as far as, you know,
25 affecting future operations.

26 Q What concerns, if any, did the
27 incident commander identify to you when you
28 were talking through the recommendations and

1 options?

2 A I mean, I don't recall any specific
3 concerns, you know, other than what could
4 happen -- you know, we outlined possibilities
5 but nothing -- no specific conversation comes
6 to mind.

7 Q Okay.

8 MR. SHER: Q Would Mr. Clayton have
9 been the main liaison with Mr. Lane?

10 WITNESS WALZEL: A Yeah. He would
11 have spent -- he was in the trailer with him
12 most of the day.

13 Q So you were literally the boots on
14 the ground doing the work, and some of your
15 other team members may have been more doing,
16 for lack of a better word -- I apologize --
17 but the paperwork?

18 A Well, yes. Initially it was Danny,
19 James, myself, and then Mike Baggett showed
20 up sometime. But yes, initially, if there
21 was equipment to rig up or remove or
22 whatever, it was me and James out there doing
23 that. Then I would go to the trailer
24 different times.

25 Q You mentioned you guys -- Mr.
26 Kopecky, you got a phone call in the evening
27 about 8:00, 8:30.

28 WITNESS KOPECKY: A Yes.

1 Q Then the next morning you flew out.
2 Did SoCalGas provide you with anything to
3 review on the plane on the way out or when
4 you hit the ground at Aliso Canyon, you were
5 given information?

6 A I can't say for sure, but now that
7 you mention it, I'm -- I'm rather confident
8 that there were some documents emailed to me.
9 I feel confident that there were.

10 Q Makes sense to try to get you up to
11 speed as quick as possible?

12 A Right. I'm pretty sure that was
13 the case.

14 MR. SHER: Thank you.

15 MR. GRUEN: Q This is a while back,
16 but do you remember what you were trying to
17 do with the information -- with the documents
18 that you received -- what did -- how did you
19 move forward with that information?

20 A Well, the purpose of it would have
21 been just to familiarize us with the well as
22 much as they possibly could in that amount of
23 time. And I think -- I'm not for sure, but
24 it possibly included the wellbore schematic,
25 which would have been a critical piece of
26 information.

27 Q Yeah. Okay. Did you -- go ahead.
28 I'm sorry.

1 A But you pretty much have to put
2 your eyes on the incident. I mean, you can
3 familiarize yourself with the downhole and
4 that type of thing and you can start bouncing
5 off a plan amongst the team, but that can all
6 change when you get on the ground.

7 Q Yeah. I get you.

8 Mr. Walzel, anything that you
9 recall receiving from the incident commander
10 as you were on your way home?

11 A No. Not specifically, but it would
12 have been, you know, directions to the well,
13 wellbore schematic, just general -- like
14 James, I'd just get kind of an idea --
15 casings might set here or depth here, tubing
16 in the well, tubing not in the well, you
17 know.

18 Q Is there any information that
19 either of you requested when you -- during
20 this time regarding the incident or regarding
21 SS-25?

22 A No, I mean, we -- if you have any
23 well history -- drilling records -- and that
24 would have been to see if there was anything
25 that happened while they drilled the well
26 that might give an idea there might be a
27 problem here. Just -- I mean, it was a long
28 time ago, but we requested just stuff like

1 that. And everything we requested by them, I
2 mean, they provided.

3 Q Okay.

4 WITNESS KOPECKY: A In an initial
5 phone call, anything -- when I mentioned the
6 documents that I think I received, they would
7 have been requested by myself, because I was
8 in communication with the client I think
9 until I received a call 8:00, 8:30 and in
10 communication back and forth until
11 approximately 1:00 a.m. And any information
12 Danny received prior to boarding the plane
13 would have come from myself.]

14 Q Danny Walzel?

15 WITNESS KOPECKY: A Danny Walzel and
16 Danny Clayton.

17 Q Danny Clayton, too.

18 Okay. So you were the sort of
19 point or the liaison to receive the
20 information from SoCalGas on Boots & Coots'
21 behalf as the Boots & Coots team was leaving
22 for Los Angeles?

23 WITNESS KOPECKY: A Correct.

24 WITNESS WALZEL: A He was first on
25 call that night; so he received a call after
26 hours from dispatch.

27 Q I see. Did the point of contact
28 change before you came out?

1 Did someone else serve as the
2 person to receive the information from
3 SoCalGas or did you remain the information
4 point for SoCal.

5 WITNESS KOPECKY: A Oh, no. I was not
6 the information point once we landed. That
7 would go into Danny Clayton.

8 Q Okay. And you were the information
9 point until the Boots & Coots team landed in
10 Los Angeles?

11 WITNESS KOPECKY: A Correct.

12 Q Right. I follow.

13 And then Danny Clayton took over
14 receiving information throughout the
15 incident; is that fair?

16 WITNESS KOPECKY: A During my time
17 there.

18 Q Mr. Walzel, while you were there,
19 since you were there a little bit longer than
20 Mr. Kopecky, did Mr. Clayton remain the
21 information point throughout your time there?

22 WITNESS WALZEL: A Yes.

23 Q Thank you.

24 Let's go off the record for a
25 second.

26 (Off the record.)

27 MR. GRUEN: Back on the record.

28 Go ahead, Mr. Holter.

EXAMINATION

1
2 BY MR. HOLTER:

3 Q Gentlemen, this is for both of you
4 as we visit the subject we talked about.

5 The information we talked about,
6 getting from the Wall files and SoCalGas, and
7 we talked -- Mr. Kopecky, you said dispatch
8 notified you of a call from SoCalGas; is that
9 correct?

10 WITNESS KOPECKY: A Correct. And the
11 way it works, they patch me direct through.

12 Q And that was Todd Van de Putte that
13 you talked to who went directly to you?

14 WITNESS KOPECKY: A If I gave the
15 correct name. Yes.

16 Q Had you worked with him before
17 throughout the years?

18 WITNESS KOPECKY: A No.

19 Q So this is the first time?

20 WITNESS KOPECKY: A (Witness nods
21 head.)

22 Q And you, Mr. Walzel?

23 WITNESS WALZEL: A First time.

24 Q So you requested a set of
25 information that you needed to assess their
26 situation? You discussed it with them; is
27 that my understanding?

28 WITNESS KOPECKY: A I don't know that

1 we were able to discuss it. They were in
2 the -- here, again, I recall they were
3 gathering information on the well for me.

4 Again, it was after hours. So I
5 don't know what they had set up, but they did
6 get -- I say, I think I recall they did send
7 me some information.

8 Q Okay.

9 WITNESS KOPECKY: A That I then
10 distributed.

11 Q Granted, your memory, I'm not going
12 to press you on it. It's not the point.

13 So is it my understanding that once
14 Mr. Clayton came aboard, did he assemble a
15 team then within a matter of hours so to
16 speak? Is that how it works?

17 WITNESS WALZEL: A Well, James,
18 myself, and Dan Clayton flew out together; so
19 that was our Boots & Coots team.

20 Q You explained you were in the hot
21 zone or managing that. Are you driving --
22 what you're discovering -- now, we're moving
23 to on the site, once you're out there.

24 Are you driving what information
25 you have, including what you've read in the
26 well files from SoCalGas and feeding that
27 information to Mr. Clayton?

28 WITNESS KOPECKY: A Well, I wasn't --

1 other than, I mean, I didn't really have a
2 real purpose to review the well bore
3 schematic. Danny and Danny Clayton would
4 have been looking at that, Danny in
5 particular, to figure -- to do his
6 calculations and all, but I guess, the second
7 part of your question, were we relaying
8 information. Any time -- since we were at
9 the well itself, any time there was any
10 change in anything, we would report it down
11 to Danny that would then convey that to Lane,
12 Bret Lane.

13 Q Appreciate that.

14 WITNESS KOPECKY: A Bret Lane.

15 Q Right. Bret Lane.

16 And when you refer to "Danny" doing
17 calculations, can you clarify which Danny you
18 are talking about.

19 WITNESS KOPECKY: A Danny Walzel.

20 Q So, Mr. Walzel, are you -- is that
21 your role in this particular instance on
22 SS-25 well to provide calculations based on
23 information you gathered and provide that to
24 Mr. Clayton?

25 WITNESS WALZEL: A Well, like I
26 mentioned, but probably 90 percent of what,
27 you know, James and myself did the same
28 thing, hammer up iron, rig up, you know, if

1 there was -- Boots & Coots needed to write
2 something or present something, then, yeah,
3 then I would do the paperwork part of it. So
4 90 percent of what we did was the same.

5 WITNESS KOPECKY: A Right.

6 WITNESS WALZEL: A But, yeah, if we
7 need to do a calculation or write a
8 procedure, then I was one that did that.

9 Q Is that the structure that held
10 until you both left that incident?

11 WITNESS WALZEL: A Yes.

12 WITNESS KOPECKY: A Yes.

13 Q And then are you aware of what
14 Mr. Clayton did with that information after
15 you gave it to him?

16 WITNESS WALZEL: A Gave to what -- I
17 mean, discussed with SoCal.

18 WITNESS KOPECKY: A With SoCal.

19 Q Was there anybody from SoCal
20 providing the same comparative calcs or
21 working with you during this time,
22 Mr. Walzel?

23 WITNESS WALZEL: A Yes. I mean, there
24 wasn't someone working by my side the whole
25 time, but their engineers were doing, you
26 know, mainly relief well stuff and, you know,
27 getting a plan for that, and, you know, doing
28 engineering stuff in the office.

1 Q I'm actually trying to understand,
2 again, on the same note, clarity, about who
3 is -- if they're looking to you within your
4 team --

5 WITNESS WALZEL: A Right.

6 Q -- and then SoCalGas supervising
7 the calculations and which way the
8 information is flowing, if it goes back and
9 forth.

10 WITNESS WALZEL: A Yeah. It was back
11 and forth. Like I said, it was real open.
12 Anybody could go to anybody and talk or ask a
13 question.

14 Q So on the SoCal team, can you
15 provide some names of who was providing
16 either engineering calculations or who the
17 engineers you were, so to speak, bouncing off
18 your approach with or position.

19 WITNESS WALZEL: A I don't remember
20 their names.

21 Q But there was somebody from
22 SoCalGas?

23 A Yes.

24 Q Was it Mr. Van de Putte?

25 WITNESS WALZEL: A No. He was -- my
26 understanding was he was the consultant
27 company man, and I think he stayed -- he was
28 there for the first --

1 WITNESS KOPECKY: A Few days.

2 WITNESS WALZEL: A He was there for
3 the first time because I know he was there
4 when the coral tubing was doing ice plug --

5 (Clarification by reporter.)

6 WITNESS WALZEL: A At least for the
7 first kill attempt. I remember him being
8 there while we went and washed out the ice
9 plug, but, no, he was the company man, and
10 then I don't know their names, but there was
11 two or three engineers.

12 Q So would it be Mr. Lane that you
13 specifically your team's working with,
14 meaning the four of you, Mr. Baggett, two
15 Danny's --

16 WITNESS KOPECKY: A We worked a lot
17 with a gentleman by the name of Mike Dosier
18 as well, but that was -- that was -- I want
19 to say logistics.

20 WITNESS WALZEL: A Yeah. Logistics.

21 WITNESS KOPECKY: A We were sourcing
22 equipment, and he was our go-to to make that
23 happen.

24 Q So I hear you that names don't come
25 to mind, but, generally, during your time
26 there, you were considered providing -- from
27 what information you received from the site
28 and files you were providing calculations to

1 make attempts to kill. That was your role?

2 WITNESS WALZEL: A Right. It wasn't
3 like every day all day long we're just --
4 (indicating).

5 Q I understand.

6 WITNESS WALZEL: A 90 percent of it
7 was the manual labor in the hot zone, getting
8 ready for the next bump shot and stuff like
9 that.

10 Q Understood. Results came out of
11 first and second kill attempts. Is it my
12 understanding that your -- you did not make
13 any adjustments in, say, the calculations
14 other than mud weights, and whatever, but as
15 far as methodology it was the same procedure
16 throughout as when you left.

17 WITNESS WALZEL: A From the best I can
18 recall, the only -- one time we might not
19 have pumped Barite, and another time we might
20 have pumped -- changed the amount of Barite.
21 At the end, we pumped a Barite pill with the
22 idea of the Barite falling out and plugging
23 up -- plugging the bottom of the well.

24 We might have changed the volumes,
25 but, again, the pump -- we could only pump so
26 fast, and so there wasn't -- other than what
27 we pumped there wasn't a whole lot to change
28 in between each one.

1 Q And then you were talking about you
2 assessed there was a leak at some time?

3 WITNESS WALZEL: A Yeah.

4 Q Either immediately or -- was that
5 specifically to that well or did you --
6 there's two other wells near it. Did you
7 guys --

8 WITNESS WALZEL: A Correct.

9 Q -- look at those other two wells
10 and put them into your mix --

11 WITNESS KOPECKY: A As I recall, we
12 checked pressures on them.

13 WITNESS WALZEL: A We checked
14 pressures daily. Or you know, we put gauges
15 on all the -- on the wellhead, all the
16 different --

17 WITNESS KOPECKY: A Casing strings.

18 WITNESS WALZEL: A -- casing strings,
19 and I don't recall if we ran logs on one of
20 them.

21 WITNESS KOPECKY: A I'm pretty sure we
22 did, and we also attempted to monitor, I
23 believe, those gauges while we were
24 performing the kill to make sure there was no
25 communication.

26 WITNESS WALZEL: A Right because those
27 were the gauges that we could get on the
28 phone.

1 WITNESS KOPECKY: A Yeah.

2 WITNESS WALZEL: A They were being
3 continuously monitored 24 hours a day.

4 Q So SS-25 did not have that ability
5 because of the gas flow coming out of it?

6 In other words, you're talking
7 SS-25 was a dynamic kill attempt; right?

8 WITNESS WALZEL: A Yeah.

9 Q So can you restate whether you were
10 or weren't able to get a flow rate at any
11 time on SS-25?

12 WITNESS WALZEL: A No there was no
13 time we ever got an actual flow rate coming
14 from the well.

15 Q Okay. So your attempts were your
16 best professional understanding based on the
17 conditions of an unknown flow rate?

18 WITNESS WALZEL: A Correct.

19 WITNESS KOPECKY: A Correct.

20 Q And the gas company, SoCalGas, at
21 any time did they give you any numbers of
22 estimates of what they thought you should use
23 for that?

24 WITNESS KOPECKY: A Not to my
25 knowledge. You mean for the actual --

26 Q Yes.

27 WITNESS WALZEL: A No. There was
28 numbers given -- again, you know, an absolute

1 open flow numbers that were calculated. No,
2 if the well had got knocked off and it was
3 coming --

4 Q Is that like what would be called a
5 worst case calculation?

6 WITNESS WALZEL: A Worst case.

7 Q And you put your greatest
8 overburden pressure on that as your putting
9 calculations together?

10 WITNESS WALZEL: A I'm not following
11 the "overburden."

12 Q Like you -- for your head.

13 WITNESS WALZEL: A I understand.

14 Q There you go.

15 WITNESS WALZEL: A Again, it's a rate.
16 So now you got, you know, velocities and all
17 this other stuff. It's not just like normal
18 drilling where you're just choking out a
19 well; you just pump it real slow.

20 But, yes, there was numbers given,
21 you know, so what this well actually was, no
22 one really knows because it was coming out in
23 the ground. You know, there was no way to
24 capture it or still looking for all the
25 unknowns to figure out, but, you know, it
26 would have been a ball -- you know, it would
27 have been hard to get an exact number of what
28 it was.

1 Q Understood. And this continued at
2 least for the first two attempts, and then
3 was there a point which a consultant was
4 brought in to work with you?

5 Did you work with Mr. Shackelford
6 at all?

7 WITNESS KOPECKY: A I was aware that
8 he was involved, but I was long gone from the
9 operation.

10 WITNESS WALZEL: A Yes. He came after
11 I left, but it was more for the relief well.

12 Q So he didn't provide anything for
13 the top kill attempts?

14 WITNESS WALZEL: A No.

15 Q Okay. Thank you.

16 And so at what point, after you
17 assessed the leak was in SS-25, did you make
18 an assessment or could you?

19 You talked about performing a jump
20 shot. At what point did you make assessment
21 like where that was in pipe depth?

22 WITNESS WALZEL: A the only -- yeah,
23 there was no way to tell from pumping that
24 and how fast it come out because I think it
25 was like within the first five barrels, the
26 stuff was already coming out, but the only
27 thing, you know, when we ran the temperature
28 log, you know, there was -- it was cold, say,

1 800 to 1,000 feet.

2 Again, those aren't exact numbers,
3 but there was a range somewhere in there. So
4 and the tools were messing up in those
5 depths, somewhere in there. So we knew the
6 hole was probably somewhere around there.

7 Q Okay. And walk us through your
8 assessment to make a change or not a change.
9 You did generally talk about that, but maybe
10 a little more just detail about the
11 conversations you had with SoCalGas internal
12 as a team to what your approach would be
13 right there to make more kill attempts.

14 WITNESS WALZEL: A Right. So if the
15 hole was, say, at 800 foot. You're only
16 losing 800 foot a well so that's not -- you
17 know, as far as mud weight goes, that's
18 probably not a whole lot, you know, change in
19 pressure, you know, for 800 foot of 10-pound
20 mud or whatever.

21 So we were already -- from what I
22 recall, we were already overbalanced. You
23 know, the mud was sufficient. So it wouldn't
24 have really changed a bunch in the next step.

25 Q Was there any point which you
26 looked at the well and the crater and the
27 fluids coming out and assessed there may be
28 some critical point which the well would

1 reach a state where you literally could not
2 even get there and understanding the top was
3 probably about the relief well, but is there
4 a point which you discussed this is a safety
5 threshold we've seen in our experience.
6 SoCalGas is concerned.

7 Did you have discussion about that,
8 to go forward or not go forward?

9 WITNESS WALZEL: A I don't recall the
10 exact conversations, but, you know, that was
11 discussed, that -- we do we try again, and it
12 really came down to, you know, if the crater
13 got big enough and the mountain top was lost,
14 and we wouldn't have been able to get to the
15 well to do anything with because even during
16 relief-well operations you want to still
17 monitor blowout well if you can and have
18 access to it. So didn't want to disturb the
19 crater anymore.

20 Q Were you there when they put the
21 bridge over?

22 WITNESS WALZEL: A No. It was being
23 built when --

24 MR. HOLTER: So it was after you guys.

25 WITNESS WALZEL: A Right.

26 MR. HOLTER: That's it. No further
27 questions. Appreciate it. Thank you.

28 MR. GRUEN: Anyone else?

1 MS. ROSE: Can I ask a question?

2 MR. GRUEN: Yes.

3 MS. ROSE: Q Going back to when you
4 first heard about the incident on the phone
5 and then you flew over at that time and you
6 first arrived and you got that packet of
7 information, like the well-bore history, all
8 that stuff.

9 Did you receive information about
10 any other well-control efforts or well
11 intervention that had been done on SS-25
12 prior?

13 WITNESS KOPECKY: A Not to my
14 knowledge. I don't recall.

15 WITNESS WALZEL: A I don't recall
16 either.

17 MS. ROSE: Thank you.

18 MR. GRUEN: Q I have just one other
19 question. After the first well-kill attempt
20 did not work for the first Boots & Coots one,
21 what chances did you think there were of
22 succeeding the next time on the next
23 well-kill attempt?

24 Did you look at that?

25 WITNESS WALZEL: A I mean, we didn't
26 put any probability numbers to it.

27 Q Okay.

28 WITNESS KOPECKY: A I don't know. To

1 clarify, I felt confident every time we
2 pumped that we were going to kill the well.

3 WITNESS WALZEL: A Yeah.

4 WITNESS KOPECKY: A Unfortunately, we
5 weren't successful with the surface kill.

6 Q That's fair. I appreciate that.

7 WITNESS WALZEL: A I know that from
8 the first or second, it laid down and was
9 pretty -- didn't do anything for a little
10 bit, but, you know, for whatever reason
11 fluids went into the reservoir, you know, it
12 came back, you know.

13 WITNESS KOPECKY: A Could not maintain
14 the hydrostatic head.

15 MR. GRUEN: Unless anybody else has any
16 questions, we're going to thank you for your
17 time. We appreciate you being here, as well
18 as both counsel. Thank you. And that's all
19 we have for today. Let's go off the record.

20 (Whereupon, at the hour of 3:10
21 p.m., the examination under oath then
adjourned.)

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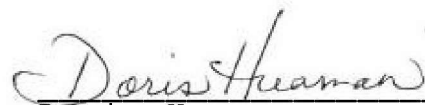
BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE
STATE OF CALIFORNIA

CERTIFICATION OF TRANSCRIPT OF PROCEEDING

I, Doris Huaman, Certified Shorthand Reporter No. 10358, in and for the State of California, do hereby certify that the pages of this transcript prepared by me comprise a full, true, and correct transcript of the testimony and proceedings held in this matter on August 8, 2018.

I further certify that I have no interest in the events of the matter or the outcome of the proceeding.

EXECUTED this 8th day of August, 2018.



Doris Huaman
CSR No. 10538

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE
STATE OF CALIFORNIA

CERTIFICATION OF TRANSCRIPT OF PROCEEDING

I, Andrea L. Ross, Certified Shorthand Reporter No. 7896, in and for the State of California, do hereby certify that the pages of this transcript prepared by me comprise a full, true, and correct transcript of the testimony and proceedings held in this matter on August 8, 2018.

I further certify that I have no interest in the events of the matter or the outcome of the proceeding.

EXECUTED this 8th day of August, 2018.

A handwritten signature in black ink, appearing to read "Andrea L. Ross". The signature is written in a cursive style with a large, looped "R".

Andrea L. Ross
CSR No. 7896

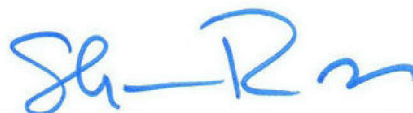
BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE
STATE OF CALIFORNIA

CERTIFICATION OF TRANSCRIPT OF PROCEEDING

I, Shannon Ross, Certified Shorthand Reporter No. 8916, in and for the State of California, do hereby certify that the pages of this transcript prepared by me comprise a full, true, and correct transcript of the testimony and proceedings held in this matter on August 8, 2018.

I further certify that I have no interest in the events of the matter or the outcome of the proceeding.

EXECUTED this 8th day of August, 2018.



SHANNON ROSS
CSR No. 8916