

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

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Oil Conservation Division
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620 S. St. Francis Drive
Santa Fe, NM 87505

IN THE MATTER OF THE HEARING CALLED BY)
THE OIL CONSERVATION DIVISION FOR THE)
PURPOSE OF CONSIDERING:)
APPLICATION OF GANDY CORPORATION FOR)
APPROVAL OF A SALTWATER DISPOSAL WELL,)
LEA COUNTY, NEW MEXICO)

ORIGINAL

REPORTER'S TRANSCRIPT OF PROCEEDINGS

EXAMINER HEARING

WVS
7/26/04

BEFORE: WILLIAM V. JONES, JR., Hearing Examiner

July 8th, 2004

Santa Fe, New Mexico

This matter came on for hearing before the New Mexico Oil Conservation Division, WILLIAM V. JONES, JR., Hearing Examiner, on Thursday, July 8th, 2004, at the New Mexico Energy, Minerals and Natural Resources Department, 1220 South Saint Francis Drive, Room 102, Santa Fe, New Mexico, Steven T. Brenner, Certified Court Reporter No. 7 for the State of New Mexico.

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July 8th, 2004
 Examiner Hearing
 CASE NO. 13,293

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A P P E A R A N C E S

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* * *

1 WHEREUPON, the following proceedings were had at
2 1:00 p.m.:

3 EXAMINER JONES: Okay, let's go back on the
4 record, and let's call Case 13,293, Application of Gandy
5 Corporation for approval of a saltwater disposal well, Lea
6 County, New Mexico.

7 Call for appearances.

8 MR. DOMENICI: Pete Domenici, Jr., and Lorraine
9 Hollingsworth, and we're here with our client, Gandy
10 Corporation represented by Dale Gandy.

11 EXAMINER JONES: Other appearances?

12 MR. OWEN: Paul R. Owen of the Santa Fe law firm
13 of Montgomery and Andrews, appearing on behalf of the
14 protestant, DKD, L.L.C. I have one witness in this matter.

15 EXAMINER JONES: Will all witnesses please stand
16 to be sworn?

17 (Thereupon, the witnesses were sworn.)

18 EXAMINER JONES: Okay, as the Applicant, go ahead
19 with your case, call your first witness.

20 MR. DOMENICI: Could I make a brief opening
21 statement?

22 EXAMINER JONES: Sure.

23 MR. DOMENICI: We're here on the Application that
24 was filed on -- for this -- signed May 11th, 2004. It's
25 Exhibit 1 in our package. And it's not completely clear to

1 us, but I want to be clear on the record as to whether this
2 is a revision of an existing permit for this well or an
3 actual new application for this well.

4 And the reason I say that is, in the Application,
5 the May 11th, 2004, Application, we clearly indicate on the
6 second page that we are proposing to revise an existing
7 project. And I think that might be important because
8 there's been an order, a final order by the Commission, on
9 a number of issues that could possibly arise in this matter
10 that we feel are clearly collateral estoppel. There is an
11 identity of parties to that order, there were several
12 issues that were necessarily decided in that case. We're
13 actually talking about the same exact well, and we're
14 actually talking about a permit based on -- or an
15 application based on an order related to that previous
16 application that indicated one way to cure that order was
17 to file a new application.

18 And in particular the issues -- and I'm not sure
19 they're going to come up, I can't tell from the prehearing
20 statement or the exhibits, but I want to just be clear for
21 our record, is, essentially what we are asking for is a
22 very -- relatively narrow technical change to this permit,
23 which is to change the permitted interval that we can
24 inject in from the interval from 6000 feet to 6400 feet,
25 which is what the original permit and the order, the final

1 order of the Commission, established, to an interval of
2 4810 feet to 6880 feet.

3 And we think the issues that we need to
4 demonstrate to establish that we should be allowed to
5 inject in that have been set forth in at least three places
6 by either the Division or the Commission. And those three
7 places are in the original -- actually at least probably
8 four places, in the original May 23rd, 2003, order it
9 clearly outlines what needs to be established for the
10 original permit to be issued.

11 Then there was a May 3rd, 2004, order to cease
12 operations. That indicated what needed to be established.

13 Then there was an emergency application, and
14 there was an order denying that application that again
15 stated what needed to be demonstrated in order for this
16 interval to be allowed.

17 And those are basically what we feel are the
18 standard requirements for an injection well, prevention of
19 waste, protection of correlative rights and protection of
20 freshwater resources.

21 What we don't think is at issue -- And so we
22 think those three issues are something we need to prove,
23 and we're prepared to do that.

24 What we don't think is at issue are issues that
25 were resolved in the Commission decision, final decision

1 that was not appealed. And those would Paragraphs 18
2 through 26, essentially. All of those paragraphs deal with
3 two issues, primarily. Paragraph 18 is one issue by
4 itself, and that is the question of whether an objection of
5 loss of revenue by DKD was some basis at that time to
6 reject the Application, and there's a clear ruling by the
7 Commission that that is not a grounds to reject the
8 Application.

9 And so we think that issue should not be re-
10 litigated today. That was decided between these parties in
11 this forum. And I'm not sure there's an intent to re-
12 litigate that, but we certainly would object to that and
13 say that's already been decided by a final adjudicatory
14 decision.

15 The second issue is Paragraphs 19 through 26, and
16 that's -- in our book or our package of exhibits, that's
17 Exhibit Number 8, Applicant's Exhibit 8 is this order I'm
18 referring to.

19 EXAMINER JONES: Can you say again where
20 that's --

21 MR. DOMENICI: It's probably right in the middle.
22 It's Applicant's Exhibit 8. And I don't know how familiar
23 the Hearing Examiner is with this history, so that's why
24 I'm going through this. But this is critical to this case
25 because this is the order that allowed the drilling to

1 start that has resulted in this interval that we're at
2 issue over.

3 And so the party, DKD, was making a protest in
4 this case --

5 EXAMINER JONES: Oh, the findings, okay.

6 MR. DOMENICI: -- and in Finding Number 18
7 there's a resolution of a claim regarding interference with
8 revenue as being some grounds for rejecting this
9 Application. So we think that is a collateral estoppel or
10 -- issue, conclusion.

11 Then Issues 19 through 26 all deal with the
12 issues of title and questions of what type of title the
13 Applicant, the well owner and operator, should have
14 relative to other mineral estates. And we think that issue
15 was clearly decided and should be collateral estoppel.

16 And essentially what the Commission appeared to
17 have done was say that that's an issue for the courts of
18 title, if there's a claim for trespass or something like
19 that, that's to be handled by the courts. They cited some
20 other Commission rulings, some case law, some treatises,
21 legal treatises, all supporting that.

22 And the basic idea is, the surface owner probably
23 has a right to inject as part of the surface estate, is
24 kind of how I read these findings.

25 The mineral estate owner may have the right to

1 inject the residue of developing the mineral estate alone,
2 but probably doesn't have any greater right. And therefore
3 if someone with the mineral estate thinks that somehow this
4 overlaps with their title and impedes their title, the
5 Commission already looked at that issue and said you need
6 to go to district court and have that decided, if you want
7 to, as a trespass issue.

8 So we think those two issues are beyond the scope
9 of this hearing and we're entitled to collateral estoppel
10 on those if they arise.

11 What we plan to do in the fundamental technical
12 issues is, we have the same witness who testified before
13 and whose testimony is cited in these findings as a basis
14 for allowing the 400-foot interval. He will come in, he's
15 prepared to revisit the basis for that testimony and that
16 decision and then expand his analysis to include this
17 additional interval and then provide technical supports
18 saying the same result should apply with this expanded
19 interval. So we have that witness available.

20 We have Dale Gandy available, and he's going to
21 talk about what happened from the point of time from the
22 final Commission order until today, as far as drilling
23 operations.

24 I also want to raise an issue on the scope of the
25 hearing which is, we don't think there's any basis to deny

1 this Application on grounds of any alleged or potential
2 violations that may have occurred from today, going back to
3 the May 23rd, 2003, Commission order. There's no legal
4 authority saying we can look back and if we find a three-
5 day period you didn't do something we didn't like, or a 20-
6 day period or a 60-day period, that's grounds to deny this
7 or condition it. There's no authority that I'm aware of
8 that will allow that type of activity to be grounds to
9 condition this permit or deny it.

10 That might be grounds for separate action, which
11 is what all the correspondence from the Division has
12 stated. None of that correspondence has said, if you don't
13 do this your permit may be revoked or we may consider a
14 renewal or a revision. And so we don't think testimony on
15 that issue is helpful. We don't think it's relevant to any
16 issue that needs to be decided to grant this Application,
17 and therefore we would object to that type of testimony.

18 But with that, we're prepared to proceed.

19 EXAMINER JONES: Let's go off the record. We'll
20 be right back.

21 (Off the record)

22 EXAMINER JONES: Okay, let's go back on the
23 record.

24 And Mr. Owen, what do you say in response to what
25 Mr. Domenici has said?

1 MR. OWEN: Well, as stated in our prehearing
2 statement, the focus of our protest is not the ownership
3 issue, and we don't intend to raise the authority of the
4 Applicant to inject, as far as his ownership rights in
5 either the minerals or the surface are concerned at today's
6 hearing. We don't anticipate that that will be an issue,
7 and I don't think the Division Examiner needs to decide any
8 issue of collateral estoppel with regard to that issue.

9 Similarly, although we will be talking about a
10 potential loss of revenue by the Protestant, DKD, and
11 talking about the service that DKD offers to the industry
12 in the area and the contributions that it makes to the
13 production of hydrocarbons in the area, we don't anticipate
14 arguing that that is a basis for denying the application in
15 this case and therefore do not think that it is an issue of
16 collateral estoppel upon which the Division Examiner needs
17 to rule.

18 The final issue raised by Mr. Domenici is whether
19 or not the operator's actions since the disposal well was
20 authorized have any bearing on this hearing today. It is
21 always within the Division's authority to consider whether
22 or not an operator is a prudent operator.

23 Mr. Domenici makes a statement that they are
24 seeking a narrow and technical expansion of the authority
25 given by the original permit in this case. What they are

1 seeking is an expansion of the approved interval from 200
2 feet to over 2000 feet. We're not talking about a minimal
3 or technical expansion of the authority, we're talking
4 about a significant expansion of the authority.

5 In that vein, it is our position -- and we have
6 already argued this -- in response to Mr. Domenici's
7 request for an emergency order that the Applicant is not a
8 prudent operator, that it, in fact, intentionally deviated
9 significantly from the order issued by the Division and
10 confirmed by the Commission in the ultimate Commission
11 ruling.

12 Those sorts of issues are clearly and squarely
13 before the Division, whether or not this particular
14 Applicant is a prudent operator. Moreover, we will be
15 examining whether or not waste will be caused by the
16 injection of saltwater into the expanded zone, specifically
17 into the upper zones, into which the Applicant seeks to
18 inject.

19 We think we will very clearly show that the
20 Applicant has very little practical regard for the
21 Division's rulings or the Division's Rules and should be
22 very closely monitored in this particular operation, and
23 its operation should be restricted to that which advances
24 the protection of correlative rights and the prevention of
25 waste.

1 EXAMINER JONES: Okay, the way it was advertised
2 is application for a saltwater disposal well, and the way
3 we're looking at this is, you have a permit -- you have an
4 existing permit that hasn't been revoked yet, but it's --
5 unless the Division Director decides to revoke it based on
6 some grounds, it's still valid. It says in all those
7 permits that they can be revoked at any time if the
8 Division Director decides that it doesn't meet with the
9 Division's goals.

10 So I think what we need to do here is hear all
11 the evidence that we've got, and I am familiar with those
12 other cases. I was in here during most of the testimony,
13 so I'm familiar with it from the time the first application
14 came in until the Commission actually ruled on it.

15 So let's just proceed and hear all the evidence,
16 and --

17 MR. DOMENICI: Could I raise one other issue that
18 I left out, which is that we had also filed a request that
19 you have authority to consider allowing us to operate at
20 the close of the hearing today? I just wanted to make sure
21 the parties are aware we're still pursuing that relief.

22 EXAMINER JONES: Well, as far as that goes, what
23 we're looking at here is a decision by the end of the day
24 tomorrow on the whole matter on this case, so --

25 MR. DOMENICI: Okay, I wasn't aware of how long

1 it might take to get the decision --

2 EXAMINER JONES: Yeah.

3 MR. DOMENICI: -- so that's -- we were trying to
4 just take that into account. So with that information --

5 EXAMINER JONES: Yeah, I think both parties will
6 know by the end of the day tomorrow.

7 MR. DOMENICI: Well, we're ready to proceed.

8 EXAMINER JONES: Okay. Call your first witness.

9 MR. DOMENICI: We call Larry Scott.

10 EXAMINER JONES: Okay.

11 LARRY R. SCOTT,

12 the witness herein, after having been first duly sworn upon
13 his oath, was examined and testified as follows:

14 DIRECT EXAMINATION

15 BY MR. DOMENICI:

16 Q. Will you state your name for the record, please?

17 A. Larry R. Scott.

18 Q. Briefly describe your educational training as
19 relates to this matter.

20 A. I have a bachelor of science degree in electrical
21 engineering from the University of Texas, seven years of
22 experience with Continental Oil Company in various
23 engineering positions, the last as supervising production
24 engineer in Hobbs, New Mexico, and for the last 23 years
25 I've been employed and a partner in Lynx Petroleum

1 Consultants, an independent producer and consulting company
2 based in Hobbs.

3 Q. Describe the type of engineering activities
4 you've performed with Lynx or have performed over that 23-
5 year period.

6 A. They would be all of the engineering activities
7 associated with an independent oil and gas producer from
8 prospect generation through completion through saltwater
9 disposal issues.

10 MR. DOMENICI: I would move Mr. Scott be
11 considered an expert witness in the field of petroleum
12 engineering.

13 EXAMINER JONES: Any objection, Mr. Owen?

14 MR. OWEN: No objection.

15 EXAMINER JONES: Mr. Scott is qualified as an
16 expert petroleum engineer.

17 Q. (By Mr. Domenici) Mr. Scott, did you testify in
18 the earlier proceedings related to this same well?

19 A. Yes, I did.

20 Q. What type of investigation did you do as part of
21 your preparation to testify in the previous hearings?

22 A. Well, I reviewed completion data, drill stem test
23 data and electrical logs in most of two sections
24 surrounding the proposed injection well.

25 Q. Did you come to any professional opinions

1 regarding the suitability of that application to meet the
2 criteria for underground injection approval?

3 A. I believe that the State "T" Number 2 in the
4 originally applied-for interval was eminently suitable for
5 saltwater disposal purposes from the standpoint of waste
6 prevention, protection of correlative rights and the
7 protection of freshwater resources.

8 Q. If you'll turn in the exhibits in front of you to
9 Exhibit 8, if you would look at that Finding Number 15...

10 A. Which one is 8?

11 Q. It's the May 23rd, 2003, Order of the Commission.

12 A. Well --

13 Q. It's about halfway down.

14 EXAMINER JONES: It's about in the middle.

15 THE WITNESS: Okay.

16 Q. (By Mr. Domenici) Particularly directing you to
17 Finding Number 15.

18 A. And we have it.

19 Q. Now, have you reviewed that recently in
20 preparation for this hearing?

21 A. Yes, I have.

22 Q. And is that -- where it says Pronghorn presented
23 testimony of a petroleum engineer, was that you, to your
24 knowledge?

25 A. That is correct.

1 Q. And is this an accurate summary, finding, of what
2 you testified?

3 A. That is correct.

4 Q. Now, after the May 23rd, 2003, Order was entered,
5 what involvement did you have with the -- either drilling
6 or permitting of this well, between that time and the
7 hearing today?

8 A. I've had virtually no involvement with the
9 subsequent workover operations and the actual conversion of
10 the well to saltwater disposal. I was contacted several
11 weeks ago when it became clear that we were going to be
12 back up here looking for a revised vertical interval, and I
13 commenced an investigation in support of this effort.

14 Q. Can you describe what investigation you
15 undertook?

16 A. Well, I reviewed scout ticket data on the two
17 sections that are as Exhibit 2, and they're the two
18 sections, being Section 6 of 16-36 and Section 1 of 16-35.
19 I reviewed drilling and completion records on 18 wells in
20 Section 6 and 20 wells in Section 1.

21 Q. Okay, what exhibits are you referring to there?

22 A. That would be the ownership map, your Exhibit 2
23 in the packet --

24 MR. DOMENICI: Okay, I would move for admission
25 of Exhibit 2.

1 EXAMINER JONES: Any objection?

2 MR. OWEN: No objection.

3 EXAMINER JONES: Exhibit 2 is admitted to
4 evidence.

5 Q. (By Mr. Domenici) Okay, had you performed a
6 similar analysis to Exhibit 2 when you testified
7 originally?

8 A. Oh, yes, virtually identical. There are 38
9 wellbores in the two sections that penetrate -- actually
10 penetrate Pennsylvanian Strawn or Permo-Penn Wolfcamp
11 horizons. Of these 38 wells, there were 43 completion
12 attempts in various horizons and production established in
13 the Wolfcamp and the Strawn.

14 There was no evidence that I could find of any
15 drill stem tests or any production tests in any horizon
16 above the Wolfcamp.

17 Q. Okay. And I know that this Hearing Examiner was
18 here for a lot of previous testimony, but I want to be sure
19 we have a complete record. So just quickly describe the
20 stratigraphy that we're dealing with here, so --

21 A. Okay, the interval that Mr. Gandy currently seeks
22 to inject into runs from just below the top of the San
23 Andres, approximately 200 feet, down to the base of the
24 Glorieta. And my investigation of the wellbores in the two
25 sections were for a production, drill stem, log, RFT tests

1 or any evidence of hydrocarbons in that interval from the
2 San Andres to the base of the Glorieta.

3 Q. And what was the result of your investigation?

4 A. I could find not one instance of hydrocarbons
5 indication in any of those intervals.

6 Q. Just so we're clear, in the San Andres or
7 Glorieta interval, any of these --

8 A. That is San Andres through the base of the
9 Glorieta, that's correct. I actually went all the way to
10 the Tubb sand and could find no evidence of any commercial
11 hydrocarbon potential down below the base of where Mr.
12 Gandy is wanting to put his injection fluids.

13 Q. So what is the stratigraphy below the Glorieta?
14 What's the --

15 A. Below the -- it's -- oh, for many thousands of
16 feet it's a brown, dolomitic, light-tan limestone, for
17 quite a long ways.

18 Q. Is that what you would call the Tubb sand?

19 A. Yes, the Tubb sand would be consistent with that
20 description, yes.

21 Q. So in reviewing a change between what you -- or
22 in summarizing a change in what you looked at for the
23 original hearing and today's hearing, given this extended
24 interval, did you reach any conclusions regarding
25 production of oil and gas?

1 A. Well, the original interval included the basal
2 San Andres and upper Glorieta. No evidence of
3 hydrocarbons. I had to expand my investigation to include
4 all the way to the top of the San Andres to the base of the
5 Glorieta. Again, same result: no evidence of hydrocarbons.

6 Q. And what is Exhibit Number 3? If you'll turn in
7 the thick exhibit package --

8 A. Okay, Exhibit Number 3 is my schematic of the
9 wellbore as it was actually completed.

10 Q. And what did you use to create that schematic?

11 A. The drilling and completion -- say the drilling
12 -- the workover and completion reports that were furnished
13 to me by Gandy Corp.

14 MR. DOMENICI: I would move for admission of
15 Exhibit 3.

16 EXAMINER JONES: Any objection?

17 MR. OWEN: No objection.

18 EXAMINER JONES: Exhibit 3 is admitted to
19 evidence.

20 Q. (By Mr. Domenici) Now, looking at Exhibit 1, if
21 you will, which is a very long exhibit, it's the entire
22 Application, if you would look at the seventh page of
23 Exhibit 1 --

24 MS. MacQUESTEN: I'm sorry, which page?

25 MR. DOMENICI: The seventh page of Exhibit 1,

1 which, if I counted right, it should be this OCD form -- or
2 the eighth -- is that the eighth page? I think it's the
3 eighth. But if you could find that, it's the eighth --

4 MS. MacQUESTEN: I think we have it, thanks.

5 MR. DOMENICI: Okay. Do you have it?

6 MS. MacQUESTEN: Yes.

7 Q. (By Mr. Domenici) Okay, I'm asking -- Do you
8 have it, Larry?

9 A. No, I don't --

10 Q. Okay, Exhibit 1 is the top exhibit, the eighth
11 page. It's this form here.

12 A. Got it.

13 Q. Okay. First of all, for the record, what is that
14 form? Are you familiar with that form?

15 A. Well, this is a sundry notice. It's a notice of
16 intention to do work on a well.

17 Q. And did you review this in preparing Exhibit 3?

18 A. Yes, I did.

19 Q. And did you review the attachment behind it?

20 A. Yes, I did.

21 Q. And on the OCD form under item number 13, will
22 you read that statement into the record?

23 A. It says, "See Attachment Administrative Order No.
24 SWD-836".

25 Q. Now, are you familiar with SWD-836?

1 A. Yes, that's the original SWD order that Mr. Gandy
2 received as a result of his first application.

3 Q. So in your experience, when this form was
4 submitted with the attached page and referencing SWD 836,
5 what would your experience lead you to believe that the
6 reviewer would have had available?

7 A. I think the reviewer would have had all of those
8 saltwater disposal orders at his disposal and this
9 attachment to look at.

10 Q. And he would have been able to -- an experienced
11 regulator or petroleum engineer would have been able to
12 visualize a schematic similar to your Exhibit 3?

13 A. Oh, absolutely, I believe so, yes.

14 Q. And do you see the signature space on the bottom
15 there?

16 A. Yes.

17 Q. Do you recognize Chris Williams?

18 A. Chris Williams is the head of the local OCD
19 office in -- located in Hobbs.

20 Q. So in your experience, a signature by the
21 District Supervisor on the line -- it says approved by --
22 with the information contained on this form -- would that
23 indicate to you that the District Supervisor was approving
24 a well essentially like your Exhibit 3?

25 A. I believe that is correct.

1 Q. And it's your understanding that is, in fact, the
2 well that is in place now?

3 A. I believe that is correct.

4 Q. So you prepared a schematic, you then reviewed
5 the production information, the well completion, and what
6 kind of oil and gas -- would that be summarized in Exhibit
7 4?

8 A. Exhibit 4 are the wells that were drilled and
9 completed, locations and total depths, in Section 1 of 16-
10 36 and Section 6 of 16-35. These would be the two
11 extended-length sections surrounding the proposed injection
12 well.

13 Q. And what conclusion did you draw regarding the
14 oil-producing capability of those formations based on this?

15 A. Of the San Andres through Tubb, I don't believe
16 there is any oil-producing potential in any of those zones.

17 Q. Now, as part of your second round of analysis for
18 purposes of this hearing, did you review this extended
19 interval for potential impact on freshwater resources?

20 A. I had resistivity data on San Andres, Glorieta
21 and Paddock wells that were completed in the Lovington and
22 West Lovington fields, and this resistivity data indicated
23 that the water contained in the disposal interval that is
24 being applied for would be on the order of 30 to 70,000
25 parts per million of total dissolved solids, not

1 inconsistent with San Andrés through Paddock water in the
2 rest of southeast New Mexico.

3 Q. And how did you -- Can you describe the specific
4 data you relied on?

5 A. This was water-analysis data that had been
6 compiled by Conoco over a period of operations spanning
7 approximately 40 years and was compiled in support of water
8 resistivities for electric log analysis.

9 Q. And in your opinion and experience, was that
10 sufficient data for you to draw the conclusions that you've
11 reached?

12 A. Yes, I believe it was.

13 Q. And is that information summarized on one of your
14 exhibits?

15 A. I believe -- I don't think I prepared an exhibit
16 specifically to that effect. I did make some water-
17 saturation calculations on the State "T" Number 2 log for
18 the intervals in question.

19 Q. And does that support or how does that relate to
20 your --

21 A. Well, the zones are wet, they are water-filled.

22 Q. Can you look at Exhibit 6 and explain in a kind
23 of brief sentence what that shows?

24 A. Well, this is the basic Archie equation that we
25 used to predict whether a zone will be oil- or water-

1 productive. It takes into account formation porosity,
2 formation water resistivity, and attempts to develop a
3 predictor, if you will, of whether or not a zone will
4 produce oil or water.

5 In my opinion, the water saturations that I
6 developed here, ranging from 36 up to 91 percent, are well
7 above cutoffs that would be used in dolomitic limestones to
8 establish commercial production.

9 Q. So Exhibit 6 would primarily support your
10 conclusion that there's no commercial production?

11 A. That is correct.

12 MR. DOMENICI: Okay, I would move for admission
13 of Exhibit 6.

14 EXAMINER JONES: Objections?

15 MR. OWEN: No objection.

16 EXAMINER JONES: Exhibit 6 will be admitted.

17 THE WITNESS: If we could go back to Exhibit 5
18 for just a minute --

19 Q. (By Mr. Domenici) What does Exhibit 5 indicate?

20 A. I reviewed the completion information that was
21 available in the San Andres through Tubb horizons in four
22 townships surrounding the proposed injection interval and
23 excluded the Lovington and West Lovington oil fields.
24 Okay? I mean, there is production in the San Andres
25 through Paddock in the Lovington and West Lovington fields,

1 but these fields are six miles south and southeast, so I
2 took those away.

3 Q. Okay.

4 A. All of the other completions in the four
5 townships in the San Andres through Tubb were for the
6 purposes of saltwater disposal, and there were 12 of those,
7 and those are shown as Exhibit 5.

8 Q. Now, were you aware of this information at the
9 first hearing?

10 A. No.

11 Q. So this is a new analysis for purposes of this
12 hearing; is that --

13 A. That is exactly correct. I went back and I
14 looked at those 12 SWD completions in the four-township
15 block, looking for precedent with regards to extended
16 vertical intervals. And of the 12 SWD wells that were
17 completed in the four townships, I found three -- 6 of 15-
18 35, 4 of 15-35, and 32 of 16-35 -- that were completed over
19 intervals from 4660 to 6404, 4660 to 6325, and 4844 to
20 6437, similar intervals to those that are being applied for
21 in this hearing.

22 Q. And why are those similar? Why would you
23 consider those similar?

24 A. Top of the San Andres to base of Glorieta.

25 Q. And to your knowledge, did all of those have

1 permits from the New Mexico Oil Conservation Division?

2 A. I looked at the OCD website on all three wells,
3 and I believe all three had permits in place, although --
4 well, I know they did.

5 Q. Okay. And then what information did you gather
6 from the other nine disposal wells?

7 A. Well, those other nine disposal wells were
8 primarily in the San Andres, not an extended interval.

9 MR. DOMENICI: Let me move for admission of
10 Exhibit 5.

11 EXAMINER JONES: Any objection?

12 MR. OWEN: No objection.

13 EXAMINER JONES: Exhibit 5 admitted to evidence.

14 Q. (By Mr. Domenici) What analysis did you do to
15 see if this Application would be protective of correlative
16 rights?

17 A. Well, all of the wellbores in these two sections,
18 being deep wells, had intermediate -- a deep intermediate
19 casing string set at approximately the top of the San
20 Andres. The vast majority of these were cemented
21 approximately to surface, sometimes a little below, but
22 clearly San Andres and above appears to be very well
23 protected.

24 I don't believe I have any knowledge of
25 freshwater resources below the San Andres in any portion of

1 this part of Lea County.

2 Q. Now, did you do any analysis as to how the
3 proposed increased interval would affect the spread of the
4 injected water versus what the original application called
5 out in the original findings?

6 A. Well, oddly enough, when you're discussing purely
7 volumetrics, or perhaps not oddly enough, the original
8 application vertical interval of approximately 400 feet
9 gross, and I think I had, from the logs on the State "T",
10 picked out approximately 75 feet of net porosity, would
11 over a period of time, pure volumetrics spreads disturbance
12 laterally. By increasing the vertical coverage of the
13 disposal interval, you actually reduce the net effects on
14 your offset operators' horizons, because it takes a much
15 longer period of time for the same volume of water to reach
16 out to the same areal extent laterally.

17 Q. If you can find Exhibit 8 again, which was the
18 OCC order of May 23rd, 2003 -- Do you have that? That's
19 Exhibit 8.

20 A. Got it.

21 Q. If you'll look at paragraph 16 in there --

22 A. Got it.

23 Q. Okay, do you recall testimony at the first
24 hearing regarding the potential harm 2000 feet away? It
25 says some 2000 feet away.

1 A. I believe there was testimony to the fact that
2 the operator was interested in drilling a well, but really
3 I don't think said much more than that.

4 Q. In there it says, Pronghorn's expert testified
5 that even after nine years of operation at 1500 barrels per
6 day, water would be swept away from the wellbore at most
7 1320 feet. Do you see that?

8 A. Yes.

9 Q. Under your analysis with this increased interval,
10 do you have a similar analysis as to the distance water
11 would move away from the injection well?

12 A. Necessarily, my analysis has to be somewhat back-
13 of-the-envelope because of the assumptions involved. But
14 if we increase the permeable h from 75 feet to 440 feet, we
15 move the affected area out at 1500 barrels a day to over a
16 hundred years.

17 Q. So instead of nine years at 1320 feet, your
18 testimony is, it would be around 100 years --

19 A. That's correct.

20 Q. -- at 1320 feet?

21 Do you believe that the interval in this proposed
22 Application should receive approval like the interval did
23 in the original one?

24 A. Yes, I do, without reservation.

25 MR. DOMENICI: That's all I have.

1 EXAMINER JONES: Mr. Owen?

2 MR. OWEN: Thank you.

3 CROSS-EXAMINATION

4 BY MR. OWEN:

5 Q. Mr. Scott, I think you said that you reviewed 38
6 wells in the sections around the proposed injection well;
7 is that right?

8 A. Yes, sir.

9 Q. And from the top of the San Andres to the base of
10 the Glorieta you found no evidence of hydrocarbons; is that
11 right?

12 A. I found no evidence of potential commercial
13 production of hydrocarbons.

14 Q. So if you said earlier in this hearing that you
15 found no evidence of hydrocarbons, that's not quite true,
16 is it?

17 A. That is not quite true.

18 Q. There are some hydrocarbons in the San Andres,
19 aren't there?

20 A. Always -- almost always when the San Andres is
21 drilled through, there will be a show of hydrocarbons.

22 Q. Okay, let's turn to your Exhibit 6. You show
23 water saturations from 36 percent to 91 percent; is that
24 right?

25 A. That's correct.

1 Q. What composes the other -- in the example of 36
2 percent, what composes the other 64 percent?

3 A. We normally assume to be some form of
4 hydrocarbon.

5 Q. So we're talking about injecting into intervals
6 that have 64-percent hydrocarbons?

7 A. That would be, generally speaking, correct.

8 Q. And I think you testified at the Commission
9 hearing on this case that the main issue in the way of
10 producing those hydrocarbons would be the porosity; is that
11 right?

12 A. No, sir.

13 Q. Why can't somebody produce a zone that has 64-
14 percent hydrocarbons?

15 A. Because of the relative permeability of the
16 various constituents, because of the two -- those various
17 constituents.

18 Q. Okay. So the various constituents, the
19 formation, is now permeable enough to --

20 A. -- to allow the hydrocarbons to move to the
21 wellbore, that's correct.

22 Q. Okay. Are there methods of increasing
23 permeability?

24 A. Oh, certainly.

25 Q. Acidizing?

1 A. And fracturing, you bet.

2 Q. Fracturing? Would that be possible in these
3 zones?

4 A. No, sir, what you'd net would be much more water.

5 Q. If you acidize or fracture, would you increase
6 the porosity?

7 A. No.

8 Q. The porosity would not be increased at all?

9 A. No.

10 Q. Would the permeability be increased?

11 A. Absolutely.

12 Q. So more water and more hydrocarbons could flow to
13 that wellbore; is that right?

14 A. You miss the term "relative permeability", and
15 the relative permeability of that rock to those two
16 constituents doesn't change. In this instance what we're
17 looking at is 99.99 percent water and .01 percent
18 hydrocarbon?

19 Q. Even though we're looking at 64 percent
20 hydrocarbons in the zone --

21 A. That would be correct. Commercial production
22 through these zones would normally be established at
23 somewhere around 20 percent, not 36 percent.

24 Q. Okay, and if you fractured, you would have both
25 more oil and more water flow to that wellbore, wouldn't

1 you?

2 A. You would have more of everything flow to the
3 wellbore, that's correct.

4 Q. And in that case, then, the problem with
5 producing is, you could have too much water compared to the
6 oil you would produce; is that right?

7 A. It requires BTUs, horsepower and dollars to lift
8 water, and what happens is, the BTUs going in are more than
9 the BTUs coming out, so that it costs you net dollars to
10 lift the fluids.

11 Q. And one of the main costs associated with water
12 production is water disposal, isn't it?

13 A. It would be a significant cost, but in this
14 instance lifting it would probably be the most significant
15 cost.

16 Q. Okay. I think you said you didn't have anything
17 to do with the actual recompletion of this well as a
18 saltwater disposal well; is that right?

19 A. No, sir, I did not.

20 Q. Okay. I think you testified in Exhibit 1 --
21 There was that one page you had a hard time finding. It
22 was a C-103, the sundry notice --

23 A. Yes, sir.

24 Q. -- that I'm talking about, signed by Chris
25 Williams. Do you remember talking about that?

1 A. Uh-huh, I recall.

2 Q. Did you prepare that?

3 A. I did not.

4 Q. Did you submit it to the OCD?

5 A. I did not.

6 Q. Did you prepare any of the data attached to it?

7 A. I did not.

8 Q. Okay. Do you know if a District Office
9 supervisor has the authority to increase authority granted
10 by the Oil Conservation in a saltwater disposal order?

11 A. I do now.

12 Q. Based on your experience in the industry, does
13 the Division -- does the District Office Supervisor have
14 the authority to overrule an order issued by the Division?

15 A. No.

16 Q. Okay, I want you to turn to Exhibit 5, please.

17 A. Got it.

18 Q. Those are the wells in the immediate area that
19 are completed in the San Andres and Glorieta as disposal
20 wells; is that right?

21 A. In four townships surrounding the proposed
22 injection site.

23 Q. And you excluded the Lovington and West Lovington
24 oil fields?

25 A. That's correct.

1 Q. Are those within those four townships?

2 A. Yes.

3 Q. Now, they're producing from the San Andres and
4 Glorieta?

5 A. Absolutely.

6 Q. So in addition to the saltwater disposal wells in
7 the San Andres, there are also producers in that four-
8 township area?

9 A. In those two fields, you're absolutely correct.

10 Q. In the San Andres and Glorieta. Do you know what
11 the relative porosity in those producers is?

12 A. Repeat the question?

13 Q. Do you know what the relative porosity in those
14 producers is?

15 A. Relative permeability.

16 Q. Relative permeability.

17 A. I know that the initial water saturation in those
18 fields was in the neighborhood of 15 to 22, 23 percent.
19 That's from Roswell Geological Society records on those old
20 fields.

21 Q. Fifteen to 22 percent water?

22 A. That would be correct.

23 Q. Okay. And in this particular well that we're
24 talking about, we have 36 percent, at least part of the
25 interval requested; is that right?

1 A. That is correct.

2 Q. Okay. In looking at -- When you were talking
3 with Mr. Dominici about Exhibit 5, you indicated that most
4 of these were injecting in a shorter vertical extent within
5 the San Andres; is that right?

6 A. That is correct.

7 Q. How long of a vertical extent are we talking
8 about?

9 A. In the other nine wells?

10 Q. Sure.

11 A. Oh, it would have been anywhere from three to
12 six, seven hundred feet.

13 Q. Seven hundred feet is about the largest vertical
14 extent?

15 A. Outside of the three that I mentioned in my
16 earlier testimony.

17 Q. Okay, what about the three that you mentioned in
18 your earlier testimony?

19 A. Those were -- and you might help me with a
20 calculator -- 4660 to 6404, 4660 to 6325, and 4844 to 6437.

21 Q. Do you know who the operators are of those wells?

22 A. I may have that here. Okay, I actually had five
23 wells, I'll give you five operator names, but now two of
24 these that were listed as San Andres through Glorieta did
25 not actually perforate the entire vertical interval, and

1 I'm not sure which two we're discussing.

2 Q. Well, let's limit you first to the three that you
3 talked about --

4 A. Okay.

5 Q. -- a second ago. On Exhibit 5, which are those
6 three wells?

7 A. Fasken Oil and Ranch --

8 Q. Is that the first one, the --

9 A. No.

10 Q. -- Cabot Q State SWD?

11 A. Stoltz State SWD.

12 Q. Okay.

13 A. The VF Petroleum.

14 Q. That's the Kathy?

15 A. That's correct.

16 Q. Why does it say "(don't use)"?

17 A. I don't know, that looked like an active well
18 from the OCD records to me.

19 Q. Is that the name of the well?

20 A. I don't know, can't answer the question. And I
21 believe C.W. Trainer operates the Amerada State SWD as the
22 third well.

23 Q. The Amerada State SWD?

24 A. Correct.

25 Q. Did you prepare this exhibit?

1 A. Yes.

2 Q. I'm curious why you've got the words "(don't
3 use)" on that.

4 A. This actually came from the state database, and I
5 get that on a computer disc once a month, and that's
6 exactly the way it was listed in that field.

7 Q. Okay. Now, based on your Exhibit 6, it's fair to
8 say that there are hydrocarbons in the San Andres and
9 Glorieta zones; is that right?

10 A. Mr. Owen, there have been 40 penetrations of that
11 horizon in those two sections over a period of 50 years.
12 There has not been a drill stem test, there has not been a
13 completion test, there has not been an RFT in any of those
14 intervals. All of the operators in those two sections,
15 despite numerous available opportunities, have decided that
16 the zone is wet, and it's wet.

17 Q. Okay. So my question was, based on the
18 information presented on Exhibit 6 --

19 A. -- the zone is wet.

20 EXAMINER JONES: Mr. Scott, just go ahead and
21 answer the question.

22 THE WITNESS: Okay, I'm sorry.

23 Q. (By Mr. Owen) My question is, are there
24 hydrocarbons --

25 A. Yes, there are.

1 Q. -- in the San Andrés and Glorieta?

2 A. That is correct, there are.

3 Q. Okay. Before about 1910, were there any oil
4 wells drilled in New Mexico?

5 A. Not that I'm aware of.

6 Q. I want you to turn back to your exhibit -- it
7 just depicts the wellbore in this case, Exhibit 3. Are you
8 aware that the Applicant was required to put a cement plug
9 in at the bottom of the -- near the bottom of the proposed
10 injection zone?

11 A. Yes.

12 Q. Do you know if that was done?

13 A. I show a casing squeeze at the lowermost holes at
14 7650 feet.

15 Q. Now, that was squeezed because of a hole in the
16 casing; is that right?

17 A. That's correct.

18 Q. Do you know if there was actually a cement
19 plug --

20 A. Yes.

21 Q. -- put in place in --

22 A. The reports so indicate, yes.

23 Q. Do you know where it is?

24 A. 7650 feet.

25 Q. Okay, I want you to turn to Exhibit 1, to the

1 ninth page. We were talking earlier about the eighth page;
2 that was the sundry notice, C-103.

3 A. Okay.

4 Q. At the very top of the whole stack, nine pages
5 down.

6 A. Okay, got it.

7 Q. That ninth page has a number of items listed as
8 having -- apparently having been performed. Is that what
9 that appears?

10 A. That's my understanding, yes.

11 Q. Look at item number 5. Does that indicate that
12 that cement plug was put in about 7690 and tagged, but the
13 top of it was tagged up about 7690?

14 A. Yes, sir. I actually went back to -- all the way
15 back to the actual daily reports --

16 Q. Okay.

17 A. -- and 7650 was what was indicated there.

18 Q. Okay. And you've got -- on your Exhibit 3 you
19 have a packer at 4720; is that right?

20 A. Yes, sir, that is correct.

21 Q. Look at that same page in Exhibit Number 1, item
22 number 16. It indicates that that packer was set at 4740;
23 is that right?

24 A. Again, I went back to the original workover
25 reports and noticed a 20-foot discrepancy.

1 Q. So are the original workover reports accurate, or
2 is the form submitted to the OCD accurate?

3 A. I would have no way of knowing.

4 Q. Do you know how well either of these, either the
5 packer -- the depth at which the packer was set or the
6 depth at which the cement plug was set comply with the OCD
7 saltwater disposal well order in this case?

8 A. For the original order?

9 Q. The original order.

10 A. Would not comply.

11 Q. Okay. Do you know why?

12 A. I do not know.

13 Q. Anybody talk about any casing corrosion in this
14 hole?

15 A. Well, I have -- I think Mr. Gandy is prepared to
16 testify about what actually went on --

17 Q. Okay.

18 A. -- but I can tell you what I know, but it's
19 second-hand.

20 Q. Is it second-hand from Mr. Gandy?

21 A. That is correct.

22 MR. OWEN: Okay, I'll explore that with him.

23 All right, may I have a minute, Mr. Examiner?

24 EXAMINER JONES: Sure.

25 MR. OWEN: Okay, that's all the questions I have.

1 Thank you.

2 EXAMINATION

3 BY EXAMINER JONES:

4 Q. Okay, Mr. Scott, so you kind of came into this
5 later on, right? Or you testified at the original --

6 A. No, I testified at the *de novo* hearing.

7 Q. Okay, at the Commission hearing.

8 A. Yes.

9 Q. Okay. And this C-103, I think that's kind of
10 critical. We need to identify whether that is a -- On the
11 first page of the C-103, the notice of intention and
12 subsequent report on Number 8 of Exhibit 1?

13 A. Yes, sir.

14 Q. There's a box checked on notice of intention to
15 perform remedial work and a box checked on subsequent
16 report of remedial work. You may not be the right one to
17 ask about this, but -- because it sounds like you found
18 some discrepancies between the next page and actually the
19 workover that was done, the daily reports.

20 A. They were 20 feet, very minor compared to the
21 summary sheet that was typed up.

22 Q. Okay. So this second page was actually the work
23 that was done in the well?

24 A. I don't know. My understanding is that when they
25 discovered those holes in the casing they shut down and

1 developed this plan and then took that down to Chris to get
2 it signed off on before they proceeded. But Mr. Gandy
3 would be better prepared to testify to that.

4 Q. Okay, we can ask him the same question, then.

5 So the actual drill reports, workover reports
6 that you had access to, we don't have access to those here,
7 do we? Because they're not in our state well files --

8 A. No --

9 Q. -- they're not required to be in the state well
10 files.

11 A. They probably would not be, no.

12 EXAMINER JONES: Yeah. I think, Mr. Domenici,
13 we're going to need to have a copy of those, hopefully
14 faxed to us as soon as possible, but just the report, the
15 internal report that they use to say exactly what they did
16 to the well, and --

17 MR. DOMENICI: That's fine. And Mr. Scott may
18 have those. I don't know if he took copies of those. If
19 not, we'll make arrangements to get them immediately.

20 Q. (By Examiner Jones) Okay. And Mr. Scott, this
21 Exhibit 3, this shows the work that was actually done. Are
22 you prepared to talk about that, or do you want and maybe
23 talk to Mr. Gandy about that?

24 A. Okay, repeat the question?

25 Q. Exhibit 3, the wellbore diagram --

1 A. Okay, I prepared this wellbore diagram from the
2 State "T" Number 2 workover reports, which I have a copy.

3 Q. Oh, you have those?

4 A. Yes.

5 Q. Do you mind if we get a copy of those --

6 A. Absolutely not.

7 Q. -- and Mr. Owen gets a copy of them also?

8 A. Not at all.

9 EXAMINER JONES: Mr. Domenici, do you mind?

10 MR. DOMENICI: That would be fine.

11 EXAMINER JONES: Okay, we'll do that at a break
12 or something, but...

13 Q. (By Examiner Jones) This wellbore diagram, the
14 top of the cement was normally -- was originally 9762, and
15 that was determined by -- do you know how --

16 A. Temperature survey, I believe.

17 Q. Okay. And then I know the original permit to
18 inject had some conditions that had to be met before
19 injection started, such as squeezing the casing on this
20 well and raising the cement -- they said raising the cement
21 to the surface and running a cement bond log. So how many
22 times did they have to squeeze this well?

23 A. Well, when they got the squeeze in at 4750, they
24 came up and shot holes in the production string at 4320 and
25 circulated 500 sacks of cement from there to surface.

1 Q. Okay, that was the last squeeze, though, right?

2 A. That's correct.

3 Q. And what before that happened? Before that there
4 was another squeeze, looks like?

5 A. Above and below. 4750 would be the top one,
6 7650, the holes at the bottom.

7 Q. Okay. So when they went in they found some
8 problems in the casing. It didn't satisfy an MIT,
9 basically; is --

10 A. That is correct.

11 Q. So not only was squeeze work initiated because of
12 that, but also because it was required in the order?

13 A. That is correct.

14 Q. Okay. And do you know why there wasn't a cement
15 bond log running after all of this work was done?

16 A. I can't answer the question, don't know.

17 Q. Do you think with the wellbore -- with the
18 records that are available, that those would suffice to
19 determine the competency and the extent of the cement
20 behind the pipe?

21 A. From the packer setting depth up?

22 Q. Actually the whole thing.

23 I mean, can we tell from those records -- can we
24 verify your wellbore diagram?

25 A. I believe you can.

1 Q. Okay. When they inject water out there, what
2 kind of water are they injecting?

3 A. It's produced water from various sources.

4 Q. Okay, different salinities of water?

5 A. I would say so, yes, depending on which formation
6 they were picking it up from.

7 Q. Okay. Well, what water is in the formation right
8 now? You've already testified to that. It's -- What does
9 it say, 20 to 60,000?

10 A. Thirty to seventy-thousand parts per million --

11 Q. Thirty to seventy- --

12 A. -- total dissolved solids, yes.

13 Q. So the water that's being injected is almost the
14 same as the water that's in the formation right now?

15 A. Oh, certainly.

16 Q. Okay, what would be the mobility ratio of the
17 injected water versus the water that's in the formation
18 right now?

19 A. Well, from my calculations, I assume 50 percent.

20 Q. Fifty percent of what, now?

21 A. Well, of the water that was currently in the
22 formation, was moveable.

23 Q. Okay. So when they inject water, they're moving
24 the formation water?

25 A. That's correct.

1 Q. Okay. So are you familiar with the Safe Drinking
2 Water Act, the Underground Injection Control Program, the
3 EPA-administered program to administer the Federal Safe
4 Drinking Water Act?

5 A. I am vaguely familiar but would not consider
6 myself an expert, no.

7 Q. Okay, they have some very good websites, and the
8 State is -- We have primacy over administering that program
9 with the EPA, but we have to answer to the EPA on
10 protection of any fresh waters and due to any underground
11 injection --

12 A. Uh-huh.

13 Q. -- so that's kind of what I'm getting at. And
14 one of the calculations that they encourage people to do,
15 such as yourself as an engineer, looking at an injection
16 well, is not just a Hall plot, which would be a good thing
17 to do, but a ZEI -- zone of endangering influence --
18 calculation.

19 A. Uh-huh.

20 Q. Are you familiar with that?

21 A. I have -- I'm familiar with it. Did not do one
22 in this case.

23 Q. Okay, hopefully we will have an easily usable one
24 of those on our website pretty soon, so engineers such as
25 yourself can utilize at least one version of it. Of

1 course, you could always do that yourself but...

2 When you did your area-of-review calculations
3 here and looked -- How far out did you look? You looked at
4 those two sections, right?

5 A. That's correct.

6 Q. So that would include one half mile radius, or --

7 A. Actually, the -- or from the disposal well, it
8 was a mile east and west, and because these are extended-
9 length sections, about three-quarters of a mile north-to-
10 south.

11 Q. North -- further south, probably. Okay, you said
12 that -- I think I understood you to say that through the
13 Tubb is the last -- there is a high water saturation, high
14 enough to have low mobile oil?

15 A. Correct.

16 Q. Okay. What about the Abo? Did you look at the
17 Abo?

18 A. There is -- I did not look at the Abo.

19 Q. Okay, the Wolfcamp -- What about the Wolfcamp?
20 Can you talk about the Wolfcamp?

21 A. Oh, the Wolfcamp is productive in this area, in
22 multiple wellbores --

23 Q. Okay.

24 A. -- in fact, was one of the original completion
25 targets in the area.

1 Q. Okay, is the Wolfcamp protected?

2 A. Yes.

3 Q. Within a half-mile radius?

4 A. Yes. And those issues were addressed
5 substantially in the first application, but because the
6 Wolfcamp was a target, it was well cemented.

7 Q. Okay, what about any -- do you know -- This is a
8 big injection interval you've got here, and admittedly it
9 may be the same as some of the other injection wells, but
10 where's that water going? Do you have any idea?

11 A. The best permeability appears to me, from
12 electric-log analysis on that State "T" Number 2, to be the
13 basal San Andres and upper Glorieta. There are some other
14 intervals of permeability, very little in the upper San
15 Andres, probably some better zones in the lower Glorieta.
16 But the originally permitted interval clearly is the best
17 spot.

18 Q. Is that based on a low gamma-ray reading or an
19 invasion from the resistivity?

20 A. Fairly clean gamma rays, invasion profile on the
21 resistivity logs, very low resistivities, and lost
22 circulation during the drilling of the well.

23 Q. Did you look at any cement bond logs on offset
24 wells to see if those showed permeability in that --

25 A. I didn't have cement bond logs available. I did

1 have a modern set of logs on the Watson 1 6, and I believe
2 the other one is the Big 6 Number 1, and these two
3 wellbores were similar to the State "T".

4 Q. Do you know if any tracer logs have been run on
5 this well, this State "T" Number 2?

6 A. I'm not aware of any, no.

7 Q. Okay, what about the volume that's being
8 injected? Is this a closed-loop system or an open-loop
9 system?

10 A. Well, they're hauling 1500 barrels a day into the
11 facility.

12 Q. There is no pipelines coming into it?

13 A. Not that I'm aware of, no.

14 Q. Okay. So it's an open system. 1500 barrels a
15 day is kind of an average number; is that right?

16 A. That's my understanding yes.

17 Q. Okay, I can ask Mr. Gandy that later.

18 Is this a commercial operation or a --

19 A. I believe it is a commercial operation.

20 Q. Commercial operation. And what is the injection
21 pressure --

22 A. Vacuum, vacuum.

23 Q. Okay. What was the injection pressure when you
24 perforated the first -- the 400 feet that were originally
25 permitted?

1 A. I don't know that I can answer that question.

2 Q. Okay, I'd better ask that one later.

3 Okay, what about a Murphy switch on the well? Do
4 you know if they've got one on there? I'll ask that later.

5 Okay, your lowest cement -- cast-iron bridge plug
6 in this well?

7 A. 10,288 feet.

8 Q. Okay, and above that it's just cement that was
9 tagged. Was it tagged after it was set up?

10 A. Above that cast-iron bridge plug it was tagged,
11 that's correct.

12 Q. Okay. Did the OCD witness that operation?

13 A. I don't know. I'm recalling that from the
14 drilling -- from these drilling reports.

15 Q. Okay. And you said that the relative
16 permeability was -- I assume that you're basing that on the
17 -- on what's normally understood to be the production of
18 the San Andres out there. You don't have any hard data on
19 relative permeability out there, do you?

20 A. No hard data on relative permeability at this
21 wellbore site, no.

22 Q. Okay, let's see here. Before we let you get away
23 we need to make sure we ask you all these questions, so...

24 The San Andres on this well here, the
25 calculations, you actually came up with -- used a simple

1 Archie equation? You didn't modify that for any shale or
2 anything? Is that the normal carbonate --

3 A. That's exactly correct. That's a standard
4 carbonate, and I didn't have enough data to factor any
5 significant modification in.

6 Q. Did you have modern enough logs on here to come
7 up with your porosities?

8 A. I had to extrap- -- I did have modern logs on
9 those two offsets --

10 Q. Okay --

11 A. -- and --

12 Q. -- did you use those data, that data?

13 A. I used that data and a best guess, trying to
14 correlate over to the State "T" Number 2.

15 Q. How far away were they?

16 A. They're about 2000 feet, roughly.

17 Q. Okay.

18 A. And I'd like to bring up -- It appeared to me
19 that the 36 percent water that I was getting in the upper
20 San Andres was substantially by virtue of those two lobes
21 being fairly tight.

22 Q. Oh.

23 A. I included them because they showed some
24 resistivity breakback, but I really don't think they're
25 probably taking very much water, or would give up anything.

1 And I think I made that note on my --

2 Q. Yes, I see the note, but I think -- I remember on
3 log calculations, sometimes if it's tight, it will shoot up
4 a real high water saturation. Is that not your experience?

5 A. Well, it tends to -- it tends to drive your
6 resistivity up, that's correct.

7 Q. Okay.

8 A. But I didn't have an invasion profile between the
9 medium and the deep tools to work with, which is --

10 Q. Yeah. You didn't have some real good logs to
11 work with out here?

12 A. That's what we had.

13 Q. Now, this water saturation, how low does it have
14 to get there to be productive?

15 A. Twenty percent, probably.

16 Q. Twenty percent?

17 A. Twenty-five percent at the outside.

18 Q. That's given a certain shale -- or a certain --

19 A. Correct.

20 Q. -- gamma-ray reading, okay.

21 Okay, did you look -- You said you looked at the
22 drilling records, right?

23 A. Correct.

24 Q. Okay, did you look at the plugging records, at
25 any --

1 A. There's -- sometimes when they plug wells they
2 find some oil that has been in that wellbore --

3 A. Uh-huh.

4 Q. -- and in your experience is that ever an
5 indication that sometime that might be a productive
6 interval?

7 A. Oil has been discovered that way, without
8 question.

9 I went back through -- Now, the completion
10 records were from our scout ticket computerized database.
11 Because that database does not always pick up later
12 completion attempts or other work, I went back to the OCD
13 website and well files to look for evidence that any
14 operator felt like any of these zones had commercial
15 potential. You know, did anybody try to test them? And I
16 couldn't find one instance of anyone attempting to
17 establish production.

18 Q. Okay, what about drill stem tests?

19 A. None.

20 Q. None?

21 A. None, not one.

22 Q. People are kind of scared of drill stem tests,
23 maybe.

24 A. Not in the San Andres, I mean, that's --

25 Q. It's sour.

1 reservoir?

2 A. This is a very large number of penetrations, over
3 a very long period of time. Completion -- recompletion
4 reserves are very inexpensive reserves to acquire. Any
5 operator, prudent or otherwise, will leave no stone
6 unturned, because to acquire his reserves he doesn't have
7 to drill for them, all he has to do is perforate for them.
8 It's incredibly cost-effective. Here we've got almost 40
9 wellbores that penetrate the zones, and not one instance of
10 any operator feeling like they had the potential for
11 commercial production. To me, it's compelling evidence
12 that these zones are suitable for water disposal.

13 Q. So your evidence is that because nobody has
14 produced it, it is not productive?

15 A. In this instance, that's correct.

16 MR. OWEN: Okay, thank you.

17 EXAMINER JONES: One more question.

18 FURTHER EXAMINATION

19 BY EXAMINER JONES:

20 Q. When you reviewed those reports, did you see any
21 evidence of swabbing, swab tests on this well, when they
22 perforated that interval? They didn't swab it, they just
23 perforated it and started injection?

24 A. I don't believe I recall any swab test. I don't
25 believe there were any done.

1 EXAMINER JONES: Okay. Gail, do you have
2 questions?

3 MS. MacQUESTEN: No, thank you.

4 EXAMINER JONES: Okay, the witness may be
5 excused.

6 MR. DOMENICI: Okay, thank you. If we can get
7 those logs, we'll make them an exhibit.

8 EXAMINER JONES: Do you guys want to take a 10-
9 minute break here?

10 MR. DOMENICI: Sure.

11 (Thereupon, a recess was taken at 2:35 p.m.)

12 (The following proceedings had at 2:47 p.m.)

13 EXAMINER JONES: Okay, let's go back on the
14 record.

15 And Mr. Domenici, do you want to make that an
16 exhibit or --

17 MR. DOMENICI: Yes, we'd like to make that
18 Exhibit 12.

19 EXAMINER JONES: Exhibit 12 --

20 MR. DOMENICI: 13, I'm sorry.

21 EXAMINER JONES: Okay, 13.

22 MR. DOMENICI: 13.

23 EXAMINER JONES: Can we scribble "13" on those
24 and pass them out?

25 MR. DOMENICI: Yes.

1 EXAMINER JONES: Thank you very much. And do you
2 want to admit that to the record?

3 MR. DOMENICI: Yes, I move for admission of
4 Exhibit 13.

5 EXAMINER JONES: Any objection?

6 MR. OWEN: No objection.

7 EXAMINER JONES: Exhibit 13 will be admitted to
8 the record.

9 Okay, let's call the next witness.

10 MR. DOMENICI: We'll call Dale Gandy.

11 DALE GANDY,

12 the witness herein, after having been first duly sworn upon
13 his oath, was examined and testified as follows:

14 DIRECT EXAMINATION

15 BY MR. DOMENICI:

16 Q. Will you state your name for the record, please?

17 A. Dale Gandy.

18 Q. Where do you live, sir?

19 A. Lovington, New Mexico.

20 Q. Briefly describe your background.

21 A. I was raised in New Mexico, I have a background
22 in agriculture and the trucking business in the State of
23 New Mexico. We have an oilfield service company that
24 consists of several realms of service work, all above
25 surface, most of it, work.

1 Q. What's your familiarity with oil and gas well
2 drilling activities or procedures?

3 A. I'm certainly not an expert in it. I've had a
4 little bit of experience, I've been around it. We support
5 them, we haul water to them, we do different functions, but
6 not as far as any well completion or technicality part of
7 it, I'm not.

8 Q. Will you describe -- and let's start at the
9 beginning, when you became involved with this, what is now
10 the injection well.

11 A. Yes, sir, I think it was back in July or August
12 of '03, Mr. Garner came to me, and we had talked previously
13 about another project of putting together a disposal well.
14 He said that Mr. Baber owned the State "T" Number 3. We
15 started talking about it, it showed good porosity, it
16 showed good potential for a disposal well and a good
17 location, a safe location.

18 We pursued it. Our deal was that they would --
19 Mr. Baber would apply for the permit, Marks and Garner
20 would complete the well to the point where it needed
21 tubing. At that point I would take it over, be totally
22 responsible for it and they would have an override in it,
23 nothing to do with the operations of it.

24 Q. And what was your understanding at that time as
25 to the status of the permit from the OCD?

1 A. At that time they had started the status of the
2 permit -- the OCD had started paperwork on it. I'm not
3 sure it had been -- I don't know what date it was filed or
4 anything, because I didn't keep up with the permit part of
5 it, because that was not -- that was supposed to be
6 furnished with the well to me.

7 Q. And then at some point did you become familiar
8 with the actual well-drilling and reworking activities
9 taking place?

10 A. Yes, sir, when they started to work on the well
11 they notified me, and I thought if I'm going to be an owner
12 and operate this well, I need to know, and so I witnessed
13 everything that was done. Anything that happened or
14 changed, I was on location and witnessed it.

15 Q. What -- Describe, if you will, what happened
16 during the work on that well that resulted in a different
17 interval that we are facing today.

18 A. Basically, there was a hole in the casing at the
19 bottom that changed our depth a little bit. They cemented
20 it, tagged it. The difference in the measurements that
21 we're talking about in the intervals is -- my recollection
22 was from calculations with the tubing to a water line that
23 showed a little bit different. We went in, started --
24 Where do I need to start?

25 Q. Well, I'd like to make sure the record is clear

1 as to -- What was the original intention? Let me start
2 that way.

3 A. The original intention was to set the packer at
4 6000 feet, approximately where the permit said, and down to
5 the bottom interval.

6 Q. And then when did that original intention change?

7 A. When we figured out we had mechanical problems,
8 we had a hole in our casing up high, also below, in the top
9 of the San Andres, in the upper part of the San Andres.

10 Q. Did -- Was there a point in time where the
11 project stopped while a plan was developed to deal with
12 this question?

13 A. There was.

14 Q. Describe what happened.

15 A. When we set the packer and located the hole and
16 narrowed it down to where it was in the casing, we shut
17 down and also come up above the hole and knew that our
18 casing would test above it. We shut down, they made out
19 the Form -- I believe it was 103, whatever it is -- and
20 asked for permission to set the packer at that depth. We
21 shut operations down until we received that from the OCD in
22 our local area and then went back to work and started
23 squeezing and started our workover at that time, in the top
24 part of the well.

25 Q. What was your understanding about what the OCD --

1 about what the approval by Chris Williams meant, as far as
2 this project?

3 A. At that time I had never questioned our local OCD
4 authority, you know, when they -- Their Rules and
5 Regulations is what we've always operated under in our
6 trucking business and moving product and -- so I didn't
7 have any thought to question his authority to do it.

8 Q. And it wasn't until after the approval was
9 received that the operation -- that you went back into
10 operation?

11 A. Yes.

12 Q. And then describe what happened as far as how the
13 work was completed.

14 A. We pumped cement in there in three different
15 intervals, trying to squeeze the hole off. We didn't have
16 any luck. We finally got cement to stand, went down and
17 tagged it, and it held, we come up above it -- and I could
18 go back in the records and tell you exactly where -- and
19 perforated it and cemented the casing. We overpumped about
20 17 barrels back in the frac tanks, to make sure that we had
21 a good job on it.

22 Shut down, we called the OCD and told them what
23 we were doing when we started pumping. They did not send a
24 representative out to do it. Then we pressure-test- --
25 then we set our packer, pressure-tested our casing. We

1 also called them at that time. They didn't send a
2 representative to witness it, but later they did. We re-
3 tested it, and they did witness it the second time.

4 Q. How much time passed between when they came out
5 and re-tested it, if you can recall?

6 A. Probably three months.

7 Q. So after the construction was completed, what was
8 your involvement with the injection well at that point?

9 A. I took the well over at that time and we run
10 tubing, set the packer, Marks and Garner continued helping
11 me do that. We assumed -- I bought adjacent property to
12 it, I bought about 90 acres. We laid a 4-inch pipeline
13 from closer to the highway, we built about a \$250,000
14 facility to receive the water and clean it up and get it
15 ready for our disposal. It's been taking it on a vacuum,
16 and that's the procedure we went.

17 Q. Roughly what kind of volumes does the facility
18 average?

19 A. 1500, 2000 barrels a day.

20 Q. And from the time that you took it over until May
21 of this year when you received a letter from the OCD, did
22 you have any concerns that there were any problems with the
23 validity of the operation?

24 A. I did not. I thought the form for Mr. Williams
25 made us legal in what we were doing.

1 Q. And based on that understanding, you invested
2 this money and bought this extra land and --

3 A. Yes, sir.

4 Q. -- engaged in all the activities you've
5 described?

6 A. Yes, sir.

7 Q. What was your response to the May 3rd, 2004,
8 emergency shut-in order? What did you do in response to
9 that?

10 A. I called Mr. Williams and he did some checking on
11 it, called me back and said if I would start the order to
12 redo it, that he would give me a verbal permission to go
13 ahead and operate.

14 Q. Did you start the process --

15 A. We did --

16 Q. -- for permission?

17 A. -- immediately.

18 Q. And is that what's attached as Exhibit 1 in this
19 stack of documents in front of you?

20 A. It is.

21 Q. What was Mr. Seay's involvement?

22 A. Mr. Seay is the one that prepared this permit and
23 made the changes. He had prepared the permit the first
24 time for Mr. Baber and redid it this time with the changes
25 that had been made in accordance with the form signed at

1 Hobbs.

2 Q. And was this filed on your behalf, this
3 Application?

4 A. It was, yes.

5 MR. DOMENICI: I'll move for admission of Exhibit
6 1.

7 EXAMINER JONES: Any objection?

8 MR. OWEN: No objection.

9 EXAMINER JONES: Exhibit 1 will be admitted to
10 evidence.

11 Q. (By Mr. Domenici) Now, after you received this
12 verbal authorization from Mr. Williams, pending this
13 application process, what did you understand the
14 application process would involve?

15 A. Simply a change of where the packer was set, from
16 6000 to where it's set, 4780, where --

17 Q. And after you received -- after you filed this
18 Application, did you receive a letter from the OCD telling
19 you to shut down around July -- June 29th?

20 A. Yes.

21 Q. If you would look in the exhibit package in front
22 of you, and it should be very close to the bottom, there is
23 -- it's actually Appellant's Number 12, which is on my
24 letterhead. It's a fax transmittal letter.

25 A. The cover letter --

1 Q. It's up about four or five pages.

2 A. Okay.

3 Q. Okay, first of all, if you look on that, it says
4 the phone number there, the fax number?

5 A. Yes, sir.

6 Q. What is that fax number for?

7 A. It's my office number. It's 396-6887.

8 Q. Where were you on the 29th?

9 A. I was in Lubbock Hospital. My mom's had colon
10 cancer, and I've been over with her.

11 Q. When did you actually first receive information
12 that this order had been -- or this letter had been sent?

13 A. When you called me on my mobile phone that
14 afternoon about 5:30 or 6:00 o'clock and asked me if I was
15 all right with the letter.

16 Q. And prior to that had you seen or heard about
17 this letter?

18 A. No, I had not.

19 Q. And what response did you take in response to
20 that letter?

21 A. We responded and complied with it.

22 MR. DOMENICI: That's all I have.

23 EXAMINER JONES: Mr. Owen?

24 MR. OWEN: Before I start the questioning of Mr.
25 Gandy, I want to clarify what -- I don't want to ask the

1 questions of Mr. Gandy that should be appropriately
2 addressed to another witness. He's here to talk about the
3 actual operations, drilling, and do we have somebody else
4 that's going to talk about that as well?

5 MR. DOMENICI: No.

6 MR. OWEN: Okay.

7 MR. DOMENICI: We have Larry Gandy. He might --
8 he would primarily be a rebuttal witness, or if there's a
9 specific point --

10 MR. OWEN: Sure.

11 MR. DOMENICI: This witness would be the person.

12 MR. OWEN: Okay, thank you. I'm sorry for the
13 interruption.

14 Mr. Gandy, thank you for coming today. I do have
15 a few questions for you.

16 CROSS-EXAMINATION

17 BY MR. OWEN:

18 Q. Since we're looking at that Exhibit Number 12,
19 you say that fax number that's on there, that 396-6887,
20 that's your office fax; is that right?

21 A. That's correct, sir.

22 Q. Do you have a business there?

23 A. Yes, sir.

24 Q. You run a lot of oil servicing through that
25 office and through that business?

1 A. Yes, sir.

2 Q. Do you have people in the office?

3 A. Yes, sir.

4 Q. Were there people in the office on the 29th?

5 A. Yes, sir.

6 Q. Do you have managers below you of your

7 businesses?

8 A. I do, sir.

9 Q. Were they in the office or on duty on that day?

10 A. They were, sir.

11 Q. Okay. All right, I think you said you're
12 injecting between 1500 and 2000 a day; is that right?

13 A. Yes, sir.

14 Q. At least 1500 a day, would that be a fair --

15 A. Not all days, no, sir.

16 Q. Most days?

17 A. Most days, yes, sir.

18 Q. And up to 2000 a day?

19 A. Yes, sir.

20 Q. It's all on a vacuum?

21 A. Yes, sir. There's times that we get an air
22 bubble or something in it that we have to kick a
23 centrifugal pump on. It puts about 150 pounds, something,
24 at the facility, to make it take water, and then it will go
25 back on a vacuum.

1 Q. Okay. When did you become involved in the
2 project?

3 A. In probably September of '03.

4 Q. 2003?

5 A. Yes, sir.

6 Q. Last year?

7 A. Yes, sir.

8 Q. All right. Mr. Gandy, I've handed you a stack of
9 exhibits. I want you to turn to Exhibit D. It's only
10 about -- I don't know, seven or eight pages down, before
11 the color pictures. I think that might be it. It's on
12 Marks and Garner letterhead --

13 A. Yes, sir.

14 Q. -- at the top?

15 A. Uh-huh.

16 Q. Does this exhibit set forth the agreement between
17 you and Marks and Garner and Pronghorn Management Corp. for
18 the drilling and operation of this well?

19 A. It is.

20 Q. Okay, what's the date?

21 A. It's the 6th and 5th and '02.

22 Q. Is that 2002?

23 A. Yes, sir.

24 Q. Is that your signature?

25 A. It is.

1 Q. So did you actually become involved in this
2 project in June of 2002?

3 A. I suppose I did.

4 Q. Okay. I want you to --

5 A. I think it was -- I thought you was talking about
6 when we become involved in doing the well.

7 Q. Okay. Now, I think when you were talking about
8 that C-103, that sundry notice that Chris Williams
9 signed --

10 A. Yes, sir.

11 Q. -- that's contained in your Exhibit 1, do you
12 know what I'm talking?

13 A. I know what you're talking about.

14 Q. -- I think you said that your understanding was
15 that that authorized you to set the packer higher than the
16 SWD order; is that right?

17 A. I thought it would change the SWD order, yes,
18 sir. I thought that whatever -- in my experience, whatever
19 we got through our local office is what we went with, you
20 know.

21 Q. Okay.

22 A. I didn't -- I'm not -- been tempted to question
23 them, Mr. Owen.

24 Q. And the intention was to set the packer higher;
25 is that right?

1 A. Yes, sir.

2 Q. Did you discuss with Mr. Williams increasing the
3 perforations in this well?

4 A. I'm not sure. Marks and Garner are the one that
5 carried the 103 to him, so I'm not sure what they
6 discussed.

7 Q. Is there anybody from Marks and Garner here?

8 A. No, sir.

9 Q. Did you, in fact, perforate far more intervals
10 than that authorized by the SWD order?

11 A. We perforated below the packer, yes, sir.

12 Q. Okay. Well, let's take a look at the SWD order.
13 I'm going to go to mine --

14 MR. DOMENICI: It's Number 7.

15 Q. (By Mr. Owen) Number 7? Let's go to your
16 Exhibit Number 7. Do you see that?

17 A. No, sir, where is it at?

18 Q. Well, it's going to be after that first paper-
19 clipped bunch, and then it's going to be several below
20 that, that first paper-clipped one is the real thick one.

21 A. Okay. Exhibit 6?

22 Q. Exhibit 7, sir.

23 A. Okay, okay.

24 Q. And if I could get you to take that clip off, I'm
25 going to ask you to look between two documents.

1 A. Okay.

2 Q. So keep that Exhibit 7 in front of you there, and
3 then that first Exhibit 1 there, that thick one that you
4 just laid to your right --

5 A. Yes, sir.

6 Q. -- about nine pages down. I think the eighth
7 page is the C-103. Can you find that?

8 A. Yes, sir.

9 Q. And then the next page has a list of operations
10 that were performed. Do you see that?

11 A. Yes, sir.

12 Q. Were those the operations that were actually
13 performed on the well?

14 A. They were.

15 Q. Okay, looking at Exhibit 7, down at the bottom
16 and the top of page 2 of that exhibit, that authorized you
17 to inject from 6000 to 6200 feet; is that right?

18 A. Yes, sir, it does.

19 Q. All right. In looking at Exhibit 1, that one
20 page I had you turn to, that list of operations --

21 A. Uh-huh.

22 Q. -- you perforated everywhere from 4810 to 6880
23 feet; is that right?

24 A. That is correct.

25 Q. Why?

1 A. We felt like that we had the authority -- or I
2 thought that we had the authority to perforate below the
3 packer, down to where we were going.

4 Q. Okay, well, let's go back to before that. Why
5 did you need to move the packer up?

6 A. Because there was a mechanical problem, there was
7 a hole in the casing.

8 Q. There was a hole in the casing. Where was that
9 hole in the casing?

10 A. About 4900 feet, 48-something.

11 Q. And how big was that hole in the casing?

12 A. We don't know exactly how big it was. It would
13 take a considerable amount of fluid.

14 Q. Did you squeeze it off?

15 A. Yes, sir.

16 Q. Why didn't you just run a packer down below that
17 after you squeezed it off?

18 A. Well, we went and got permission to set up above
19 it after we -- we squeezed it off to -- we put about 30
20 sacks of cement in it three different times, we tagged it
21 twice and it didn't hold, the third time it did. And then
22 we had permission, or -- at that time -- I can't recall
23 exactly, I think we went and got permission to set the
24 packer above it, and so we perforated above it and
25 circulated cement above that area and then set the packer

1 at that area.

2 Q. Did you consider going on through that -- where
3 you tagged it and setting the packer below it, where you
4 were told to, at 5950?

5 A. No, sir, they had got permission at that time
6 from Mr. Williams to set the packer higher.

7 Q. I'm talking about before you got that permission,
8 did you consider going through where you tagged it off and
9 setting the packer where you were told to, at 5950?

10 A. I don't think I understand what you're saying.
11 Did we consider it? Yes, sir, we had a mechanical problem
12 that prevented us from doing it, or would make it costly to
13 do it.

14 Q. And you made that mechanical problem go away by
15 squeezing off that hole; is that right?

16 A. Yes, sir.

17 Q. So that hole is no longer existent; is that
18 right?

19 A. There is -- That particular hole no longer
20 exists. I don't know if there's another hole below it or
21 not.

22 Q. Okay. So the mechanical difficulty that you had
23 that caused you to go -- to want to come up toward -- or
24 not to be able to set your packer at 5950 had been solved
25 by squeezing it off, right?

1 A. Yes, sir, that particular hole had.

2 Q. Okay. And there was nothing to stop you from
3 going ahead at that point and going through where you'd
4 tagged up to the top of the cement and setting your packer
5 at 5950, was there?

6 A. Well, we didn't know how we would circulate our
7 cement. If we went below that, then we couldn't circulate
8 our cement up above it.

9 Q. Okay. Well, let's talk about your circulation of
10 cement for a little bit.

11 A. Okay.

12 Q. I want you to look at that SWD order on page 2,
13 the third paragraph. It starts, "Prior to perforating..."
14 Do you see that?

15 A. Yes, sir.

16 Q. All right. The second, the third -- I guess it's
17 the second complete sentence starts -- it's on the right-
18 hand side -- "Next, spot mud..." Do you see that sentence?

19 A. Yes, sir.

20 Q. And it says, "...spot mud from the retainer to
21 6500 feet and set a cement plug inside the 5 1/2 inch
22 casing at 6500 feet." Right?

23 A. Yes, sir.

24 Q. And then you're supposed to wait on the cement
25 and then run cement to the surface; is that right?

1 A. Yes, sir.

2 Q. Supposed to circulate cement all the way to the
3 surface?

4 A. Yes, sir.

5 Q. All right, let's look at what you actually did.
6 Let's look at that Exhibit 1.

7 A. Okay.

8 Q. It looks like you set the first bridge plug at
9 10,288 and you put some cement on that; is that right?

10 A. That's correct.

11 Q. And it looks like -- item number 5 looks like you
12 set a cement plug and tagged it up at 7690; is that right?

13 A. That's correct.

14 Q. Does it say there that you circulated cement to
15 the surface?

16 A. No, sir.

17 Q. Why didn't you circulate cement to the surface?

18 A. Well, we come back up the hole and found that we
19 had a hole in the casing, is the reason we didn't circulate
20 cement to surface.

21 Q. Now, that hole was found later with a packer at
22 4750, right?

23 A. Uh-huh.

24 Q. Did you try to circulate to the surface when you
25 set that cement plug at 7690?

1 A. We didn't try to circulate cement to the surface
2 because we couldn't circulate.

3 Q. Why not?

4 A. Because it would go away, we couldn't get
5 circulation.

6 Q. And you -- Did you try to do that?

7 A. We did.

8 Q. Now, the order required you to set that cement
9 plug at 6500 feet, right?

10 A. Yes, sir.

11 Q. And you actually set that cement plug at 7690; is
12 that right?

13 A. Yes, sir.

14 Q. Why did you set it 1000 feet deeper than you were
15 ordered to?

16 A. Because there was also a hole in the casing
17 there, there was a mechanical problem there.

18 Q. At 6500 feet?

19 A. Yes, sir.

20 Q. Why didn't you just squeeze it off there?

21 A. I don't really know. You know, I don't -- I was
22 witnessing it, and I --

23 Q. Who was doing your work there?

24 A. Mr. Garner.

25 Q. And he's not here?

1 A. No, sir.

2 Q. So we don't know why that cement plug wasn't set
3 at 6500 feet and just squeezed off, do we?

4 A. Well, it wouldn't -- you couldn't set a plug at
5 6500 feet, as I remember correctly. It would take it.

6 Q. It just kept taking it?

7 A. Yes, sir.

8 Q. Kept taking the cement?

9 A. Kept taking the water. You couldn't circulate it
10 to get -- you know.

11 Q. It kept taking the water outside of the casing?

12 A. Yes, sir.

13 Q. Where was it going?

14 A. We don't know.

15 Q. You don't know if it was going uphole?

16 A. No.

17 Q. You don't know if it was going downhole?

18 A. No, sir.

19 Q. Did you attempt to set a cement plug there?

20 A. Yes, sir.

21 Q. 6500 feet?

22 A. We attempted to set a packer there to circulate
23 it, to find a spot to set it, yes, sir.

24 Q. And you couldn't circulate it because there was a
25 hole?

1 A. That's correct.

2 Q. Did you try to squeeze off that hole?

3 A. No, sir.

4 Q. If you could have squeezed off that hole, you
5 could have set your packer at 6500 feet, couldn't you?

6 A. I don't think so.

7 Q. All right. Now, let's look at that operations
8 sheet there. You set your packer at -- Well, item number
9 16 there, you set your packer at 4740; is that right?

10 A. Yes, sir.

11 Q. And then you perforated -- item number 9, you
12 shot four holes at 4320; is that right?

13 A. Yes, sir.

14 Q. Then you did a pressure test after that?

15 A. No, sir.

16 Q. At some point after that you did a pressure test,
17 an integrity test of the casing; is that right?

18 A. We did an integrity test of the casing before we
19 shot the holes. It helped, and then we shot the holes,
20 circulated cement and did another integrity test.

21 Q. And that integrity test after you shot that
22 cement at 4320 -- there was a second integrity test after
23 you shot the holes at 4320?

24 A. Not until after we pumped the cement in it, no,
25 sir.

1 Q. And you pumped the cement in, and then you
2 pumped, and then you did another pressure test --

3 A. Yes, sir.

4 Q. -- is that right? And the packer was still
5 sitting down at 4740?

6 A. No, sir, we set -- we had to drill out and come
7 back and set our packer, and we set a -- as I remember, I
8 think it was a bridge plug or something that was set in
9 there. Anyway, it was something that we drilled out, you
10 know, because we had to drill back down to it and get it
11 out after we poured -- put our cement in it.

12 Q. Where did you set that bridge plug?

13 A. I believe it's at 47- -- I'm not sure it was a
14 bridge plug or -- We set the cement retainer in it, and we
15 had to drill the cement back out, and then after we drilled
16 it back out we set the packer where we had permission to
17 set it and then did an integrity test on it.

18 Q. You set that cement retainer, that's item number
19 10?

20 A. Yes, sir.

21 Q. Where did you set that?

22 A. I don't remember, I don't really know.

23 Q. Was it above that 4320?

24 A. No, sir.

25 Q. It was below it?

1 A. As I remember correctly, it was, yes, sir.

2 Q. You didn't have the packer set yet?

3 A. I don't remember.

4 Q. Okay. Is that packer still set in that 4740?

5 A. The packer -- We set the packer in there after we
6 pumped our cement and drilled out. Then we went back and
7 set this packer in there.

8 Q. Well -- Yeah, I mean today, as we sit here, is
9 that packer setting there at 4740?

10 A. Yes, sir.

11 Q. Okay. I think Mr. Scott's well diagram indicates
12 that it's at 4720; is that right? Exhibit Number 3?

13 A. There is a discrepancy, as I said before, between
14 our tag on our calculations with our tubing and our
15 wireline.

16 Q. Okay. So the order required that the packer be
17 set at 5950, right?

18 A. I'd have to look and see.

19 Q. I think it's on the top of page 2, second line.

20 A. Yes, sir.

21 Q. Order required that it be set at 5950?

22 A. Uh-huh.

23 Q. Your work report here says that it's set at 4740,
24 right?

25 A. Yes, sir.

1 Q. Mr. Scott's diagram says that it's set at 4720,
2 right?

3 A. Yes, sir.

4 Q. Okay, I'm just trying to figure out where this
5 thing is. All right, let's move on a little bit.

6 Now, your original proposal was to perforate from
7 6200 feet to 6400 feet; is that right?

8 A. Yes, sir, it is.

9 Q. Okay. Why don't you take a look at -- in my
10 stack of exhibits, Exhibit D?

11 A. Okay.

12 Q. Do you see that?

13 A. Uh-huh.

14 Q. And that's your APD for this well; is that right?

15 A. That's what?

16 Q. I'm sorry, Exhibit C, let's go to Exhibit C.

17 A. Okay.

18 Q. That's your -- essentially your proposal for this
19 well; is that right?

20 A. Yes, sir. That's Pronghorn's proposal for it,
21 yes, sir.

22 Q. That's Pronghorn's proposal for this well?

23 A. Yes, sir.

24 Q. And the proposal was to -- item number 7,
25 perforate from 6200 to 6400, right?

1 A. Yes, sir.

2 Q. And turning back to that order, on page 2 at the
3 top again there, in that same line, requires -- or permits
4 injection from 6000 to 6200 feet, right?

5 A. Yes, sir.

6 Q. And then when we turn to your operations log, you
7 actually perf- -- item number 15, you actually perforated
8 from 4810 to 6880, right?

9 A. Yes, sir.

10 Q. You perforated about 1180 feet above the proposed
11 zone?

12 A. Yes, sir.

13 Q. And the order that -- the zone that was ordered
14 by the Division; is that right?

15 A. I'm not sure if we got permission, I don't know
16 of any permission that we got to perforate higher than we
17 did. I witnessed it, I know it was perforated. I'm not
18 sure where the permission come from.

19 Q. Okay, when you were talking about the purpose of
20 that visit to Mr. Williams, you said it was to get
21 permission to set the packer higher; is that right?

22 A. Yes, sir.

23 Q. But you don't know if it was to get permission to
24 perforate?

25 A. I do not.

1 Q. Do you have any documents that indicate that that
2 was the purpose?

3 A. I do not.

4 Q. Do you have any documents that indicate that Mr.
5 Williams approved perforations above the permitted zone?

6 A. I do not.

7 Q. All right, and you perforated about 680 feet
8 below the proposed zone; is that right?

9 A. Yes, sir.

10 Q. The proposed zone was only 2000 feet, right?

11 A. Yes, sir -- 200.

12 Q. Two hundred feet, I'm sorry, thank you. And now
13 you've got more than 800 feet perforated; is that right?
14 I'm sorry, more than 2000 feet perforated; is that right?

15 A. Yes, sir, that is correct.

16 Q. And you don't know if you ever got permission to
17 do that?

18 A. I'm not sure if they did that or not, I am not.

19 Q. I want you to turn to the top of my stack of
20 exhibits, Exhibit Number B. Do you see that?

21 A. Uh-huh.

22 Q. Is that the Application that was originally filed
23 for the disposal well in this case?

24 A. It's my understanding, yes, sir. I wasn't in on
25 the -- It didn't go through me, I didn't do it.

1 Q. Okay.

2 A. I didn't make the application.

3 Q. And you became a couple months later, in June of
4 2003; is that right?

5 A. Yes, sir.

6 Q. All right. I want you to look at Exhibit Number
7 C. That's an APD. Do you see that?

8 A. No, sir. In your exhibit or mine?

9 Q. Yes, my stack of exhibits. It looks like you
10 were on a wellbore diagram, and it's a couple more pages
11 past that, sir, right past the map?

12 A. Map?

13 Q. Right past that, yes, sir. Is that the APD that
14 was filed for the original SWD in this case?

15 A. To the best of my knowledge it is, yes, sir.

16 Q. All right. I want you to turn to Exhibit G in my
17 stack, just a few pages down. It's on the OCD letterhead.

18 A. Okay.

19 Q. Is that the letter that you received in May of
20 this year ordering you to immediately cease injection into
21 the well?

22 A. Yes, sir, I believe it is.

23 Q. Did you receive that order?

24 A. Yes, I did.

25 Q. All right. I want you to turn to Exhibit I, it's

1 just two pages down.

2 A. Okay.

3 Q. It's on NMOCD letterhead; is that right?

4 A. Yes, sir.

5 Q. It's from Gail Macquesten to Ms. Lorraine
6 Hollingsworth; is that right?

7 A. Yes.

8 Q. Is that the letter that was faxed to your office
9 the morning of June 29th, 2004?

10 A. Yes, sir.

11 Q. You didn't know about it till that evening,
12 right?

13 A. That's correct.

14 Q. Okay. I want you to turn to Exhibit Number J,
15 the color photos. Do you see those?

16 A. Yes, sir.

17 Q. Are those photos of your -- Gandy Corporation's
18 tanks and battery associated with the injection well?

19 A. It is.

20 Q. The injection well is actually about 2000 feet
21 away; is that right?

22 A. It's a little further than that.

23 Q. Okay, it's about -- a little over 2000 feet north
24 of this location, right?

25 A. Yes, sir.

1 Q. You just have pipe running to the injection well?

2 A. That is correct.

3 Q. Okay. Do these accurately depict the condition

4 of your operations?

5 A. It does.

6 MR. OWEN: Mr. Examiner, I move the admission of

7 Exhibits B, C, D, not F, G and I.

8 EXAMINER JONES: Any objection, Mr. Domenici?

9 MR. DOMENICI: No objection.

10 EXAMINER JONES: Okay, Exhibits for DKD B, C, D,

11 G and I will be admitted to evidence.

12 MR. OWEN: May I have just a minute, Mr.

13 Examiner?

14 EXAMINER JONES: Sure.

15 MR. OWEN: Thank you.

16 All right, nothing further at this time, Mr.

17 Examiner.

18 MR. DOMENICI: Can I follow up?

19 EXAMINER JONES: Sure.

20 REDIRECT EXAMINATION

21 BY MR. DOMENICI:

22 Q. Mr. Gandy, let me try to follow up on a few of

23 these questions. If you look in the -- not our exhibits

24 but the other set of exhibits, if you look through Exhibit

25 C --

1 A. Okay.

2 Q. -- okay, do you have an understanding as to
3 whether or not when Exhibit C was sent to OCD it included
4 the page behind it?

5 A. It's my understanding that it did, but I'm not
6 positive of it. I wasn't there when it was executed.

7 Q. And then on the first page of Exhibit C, the
8 form, it says on Number 22 there, it says, "See Attached.
9 Administrative Order"?

10 A. Yes, sir.

11 Q. See that language?

12 A. Yes, sir.

13 Q. And then if you look -- and I know this gets
14 confusing, but if you look -- So that proposal went in and
15 there was a notification on the OCD form along with a
16 description of the work?

17 A. Yes, sir.

18 Q. And a copy of the order?

19 A. Yes, sir.

20 Q. And that's how you were proceeding?

21 A. Yes, sir.

22 Q. And then if you'll look on the order itself, if
23 you can locate that, which is Exhibit 7 in the other
24 package.

25 A. Okay.

1 Q. You might have separated that out of -- when he
2 was asking you about that, but if you look in Exhibit -- if
3 you find Exhibit 7 --

4 A. Okay, I've got it.

5 Q. Okay, if you look on the bottom of the second
6 page --

7 A. Okay.

8 Q. -- will you read that into the record, what it
9 says there?

10 A. The operator shall immediately notify the
11 supervisor of the Hobbs District Office of the Division of
12 failure of tubing, casing, or packer in the said well...

13 Q. And can you finish it? ...and...?

14 A. ... and shall take such steps as may be timely or
15 necessary -- and then it gets -- I can't read it, it's --

16 Q. Okay, for the record I think it says, "...to
17 correct such failure or leakage."

18 Did you understand that in following up with the
19 subsequent -- what we call Form 103, C-103 form, that there
20 was an attempt to comply with this requirement in the
21 order, that if there was a problem, to notify the Hobbs
22 District Office?

23 A. Can you --

24 Q. Well, looking at the language you just read in
25 the order, that I just had you read --

1 A. Uh-huh.

2 Q. -- did you understand that pursuant to that
3 language Pronghorn was then making a second proposal after
4 they -- the first proposal they made wasn't working?

5 A. Yes, sir, that's correct.

6 Q. So they then made a subsequent proposal and were
7 taking such steps as necessary, as may be timely and
8 necessary, to correct such failure --

9 A. Yes, sir.

10 Q. -- such failure or leakage?

11 A. That's correct.

12 Q. And then Mr. Williams signed off on that
13 proposal, to your knowledge?

14 A. Yes, sir.

15 Q. And you went forward?

16 A. We went forward, yes, sir.

17 Q. And in the proposal to Mr. Williams, in response
18 to the order, as required by the order, he was notified
19 that these different perforations were going to occur?

20 A. I'm not positive that he was. I wasn't there. I
21 understood that we had permission to do it, but I have not
22 seen written permission to do it, so I can't make a
23 statement --

24 Q. Let me ask it this way: Do you know if the
25 attachment, the second page to Exhibit -- second page --

1 it's actually to page 8 of Exhibit 1, so it's the C-103
2 form --

3 A. Uh-huh. I've lost it again.

4 Q. It's in the top part of that first exhibit,
5 should be in that package right there, eighth page down.

6 A. Okay.

7 Q. Okay, there's the Form C-103?

8 A. Uh-huh.

9 Q. And then behind it is the listed items 1 through
10 18?

11 A. Yes, sir.

12 Q. Did you understand that when this form was
13 submitted to Mr. Williams he received the list of items
14 attached, the description attached?

15 A. Yes, sir, I did.

16 Q. And so when you went forward thinking that you
17 had approval from him, you understood that he had been
18 informed of this proposal?

19 A. I understood that, yes, sir.

20 Q. Now, let me go back and just try to tie up a
21 couple of things. In this thick exhibit package, our
22 exhibits --

23 A. Okay.

24 Q. -- we went through the letter that was on my
25 letterhead, forwarding this order?

1 A. Yes, sir.

2 Q. And you said that was your office number?

3 A. Yes, sir.

4 Q. Isn't it correct that is your Lovington office
5 fax number?

6 A. Yes, sir.

7 Q. And which office do you work out of?

8 A. The Lovington.

9 Q. Okay, so that went to the Lovington office?

10 A. It did go to the Lovington office, and they
11 subsequently put it -- but instead of being -- it wasn't
12 the Gandy Corporation, it was personally to me, and so they
13 put it in my mailbox for me to attend to when I got back.

14 Q. Okay. Then after you found out about the order
15 did you contact your son from the hospital in Lubbock, to
16 initiate steps to comply?

17 A. I did.

18 Q. How long did you take to do that?

19 A. As soon as I got off the phone to you.

20 Q. And were you intimately involved in the decision
21 as to where to perforate?

22 A. No, sir.

23 MR. DOMENICI: That's all I have.

24 MR. OWEN: Mr. Examiner, I do have a couple
25 follow-up questions.

1 EXAMINER JONES: Okay, go ahead.

2 RECROSS-EXAMINATION

3 BY MR. OWEN:

4 Q. Mr. Gandy, do you have the daily report that Mr.
5 Scott brought with him? Is it sitting up there? It's
6 marked Exhibit Number 13, probably in handwriting. It says
7 New Mexico State "T" up at the top. It should be all by
8 itself.

9 A. No, sir, I don't think I do. Exhibit 13?

10 MR. OWEN: I don't know if that was ever provided
11 to the witness.

12 MR. DOMENICI: I'll give him my copy. I know
13 there's a number of copies around.

14 Q. (By Mr. Owen) Okay, I want you to -- Have you
15 see that before?

16 A. Yes, sir, I have.

17 Q. Have you read it before?

18 A. Yes, sir, I have.

19 Q. Does it accurately describe the operations while
20 this well was being recompleted as a disposal well?

21 A. It generally does, yes, sir.

22 Q. All right, I want you to turn to the fourth page.

23 A. Okay.

24 Q. The entry at the top is 8-18-03; is that right?

25 A. Yes, sir.

1 Q. And the entry at the bottom is 8-22-03; is that
2 right?

3 A. Yes, sir.

4 Q. That entry on 8-22-03 describes the perforations
5 in the injection zone; is that right?

6 A. Yes, sir.

7 Q. Does that entry describe operations that were
8 conducted on August 22nd, 2003?

9 A. Yes, sir.

10 Q. Okay, I want you to turn back to your Exhibit 1,
11 and the C-103 is about eight or nine pages down in there.

12 A. In here?

13 Q. It's that thick -- your Exhibit 1.

14 A. My Exhibit 1.

15 Q. Your -- yeah.

16 A. Okay.

17 Q. It's that thick exhibit, that's what we're
18 talking about, the one you've got your hand on, sir.

19 A. Okay.

20 Q. Do you see the C-103?

21 A. Yes, sir.

22 Q. What date was that signed by Mr. Williams at the
23 bottom?

24 A. 19th.

25 MR. OWEN: All right, that's all I have, Mr.

1 Examiner.

2 EXAMINATION

3 BY EXAMINER JONES:

4 Q. Okay, Mr. Gandy, are you -- you're familiar with
5 the equipment on the well right now?

6 A. Yes, sir, I am.

7 Q. Okay. Does it have a pressure-limiting switch on
8 it, a Murphy switch?

9 A. Yes, sir.

10 Q. Okay, even though you're on a vacuum right now, I
11 understand.

12 A. Yes, sir.

13 Q. Okay, are you --

14 A. Sir, the pressure-limiting switch is at the
15 facility, not at the well.

16 Q. Okay, that's fine.

17 I guess I need to ask this as a question, but are
18 you familiar with the Safe Drinking Water Act, the Federal
19 Safe Drinking Water Act?

20 A. I know about it. But familiar with the
21 technicality of it, I'm not, sir.

22 Q. It's -- The Underground Injection Control Program
23 is derived from that Safe Drinking Water Act, and it's
24 regulated by the Environmental Protection Agency, and so
25 they look over our shoulders as to what we do here in New

1 Mexico, and I have to answer to them.

2 A. I understand.

3 Q. So I wanted you to be aware of that. The --

4 A. The cement down to the 4720 or 4800 should
5 protect that, shouldn't it? That was my understanding,
6 that it would take any question of polluting any kind of
7 water completely out of it, because we're double-cemented.
8 The 8 and 5 is cemented down that low, plus the 5 1/2.

9 Q. Okay, and on that cement job, were you there
10 witnessing that?

11 A. Yes, sir, I was.

12 Q. So you know there is cement there --

13 A. I know there is -- We circulated 17 1/2 barrels
14 over.

15 Q. Okay, but you didn't run any bond log on it --

16 A. No, sir.

17 Q. -- so there is some intervals opposite where
18 you're perforated that maybe have no cement, right?

19 A. I don't know. It was explained to me that
20 overpump it would ensure any spot that wasn't -- you know,
21 that it would go to.

22 Q. Okay. But that hole that you had down at 6600
23 feet or so and you tried to squeeze and you couldn't even
24 get the water to circulate, right?

25 A. Yes, sir.

1 Q. So it sounds like you found a zone of high
2 permeability down there?

3 A. Yes, sir.

4 Q. So were you happy when that happened, or were you
5 -- did that influence you to go ahead and include that zone
6 in your perforations?

7 A. It did not. No, sir, we were trying to do it as
8 close as we could to the book, but mechanical problems, you
9 know, make you go a little different route sometimes.

10 Q. Okay, when Eddie Seay submitted this on your
11 behalf, this application to inject over this interval, this
12 new interval, we got a protest from Mr. Watson as DKD --

13 A. Uh-huh.

14 Q. -- and because he was in that area of review, he
15 has -- he had the -- and you noticed him, he had the right
16 to protest. And do you think he was being materially
17 affected by your well?

18 A. No, sir. Am I hurting his well? Is that what
19 you're asking me?

20 A. Yes.

21 A. No, I don't think so.

22 Q. Okay, so you have no idea why he's protesting?

23 A. I don't.

24 Q. Okay, we'll hear from him later on this.

25 Let's see, and as far as where is the water going

1 in the well, do you have any idea where it's going in that
2 big interval, just beyond what Mr. Scott --

3 A. Not beyond what Mr. Scott says, we don't.

4 Q. -- said earlier?

5 A. Uh-huh.

6 Q. Okay.

7 A. We feel confident it's not going below where our
8 cement, you know, is on the bottom or above where it's at
9 on top --

10 Q. Okay

11 A. -- it's going in that interval somewhere.

12 Q. Okay. Are you aware that we put a pressure limit
13 on injection wells?

14 A. I am.

15 Q. And you're aware that it usually starts out at
16 .2-p.s.i.-per-foot gradient?

17 A. Yes, sir, I am.

18 Q. And do you know how to apply for an additional
19 pressure on your well in the future, if you ever need it?

20 A. Yes, sir, I do.

21 Q. Okay. This C-103 that was filed, was that C-103
22 filed prior to the work or after the work?

23 A. Prior to the work.

24 Q. Okay. But on the boxes that was checked on that
25 C-103, they checked off a preliminary, but they also

1 checked off on the other side that the work had been done,
2 and I just -- Do you know why they checked that box over on
3 the right-hand side that says the work had already been
4 done?

5 A. I think they carried it back to him after we
6 accomplished the work, is my understanding, that it went
7 back to him for final approval. Now, I'm not positive of
8 that, sir, but that's my understanding.

9 But it was -- We did have that prior to doing the
10 work.

11 Q. Okay. Why was there holes in the casing? Why do
12 you think it had holes in the casing out there?

13 A. I think that there was not any cement behind it
14 where it was at, and the water from -- Like Mr. Scott
15 talked, it was heavily saturated, and it over a period of
16 time ate a hole in it.

17 Q. Because the well is pretty old?

18 A. Yes, sir, that's correct.

19 Q. And when you bought into this well did Mr. Baber
20 explain to you the procedure he'd gone through to get this
21 well approved, first administratively, and then he went
22 through the Division, then he had to go to the Commission?
23 Did he say anything about that?

24 A. No, sir.

25 EXAMINER JONES: And why is Marks and Garner not

1 here today to present a witness in this, Mr. Domenici?

2 MR. DOMENICI: There's no specific reason? I
3 mean, we thought Mr. Scott could explain the key issues.
4 It sounds like maybe there's more questions about the well
5 construction than the impact of the increased interval,
6 which is really what we focused on, and frankly, all the
7 orders that we have seen focus on.

8 Q. (By Examiner Jones) Okay, Mr. Gandy, another
9 thing we look at besides pollution of -- and movement into
10 any freshwater zones is movement out of zone. In New
11 Mexico we issue our permits restricting any movement out of
12 the injection zone.

13 Right now your zone that you're injecting is the
14 San Andres and Glorieta, so we want to watch real close
15 within our half-mile radius if there's any movement out of
16 the San Andres up or out of the Glorieta down into any
17 other formations. Are you confident that there will be no
18 movement as a result of your injection in the San Andres
19 and the Glorieta?

20 A. I'm confident in Mr. Scott's figures on it, yes,
21 sir.

22 EXAMINER JONES: Gail, do you have any questions?

23 MS. MacQUESTEN: No, thank you.

24 EXAMINER JONES: That's it for me with this
25 witness.

1 You guys have any more questions further or --

2 MR. DOMENICI: Nothing further.

3 MR. OWEN: Nothing further.

4 EXAMINER JONES: Okay. Thank you very much, Mr.
5 Gandy.

6 MR. OWEN: Thank you, Mr. Gandy.

7 THE WITNESS: Thank you, sir.

8 EXAMINER JONES: Okay, any more witnesses?

9 MR. DOMENICI: Can we recall Mr. Scott to talk
10 about some of the construction?

11 EXAMINER JONES: I don't have a problem with it.
12 Mr. Owen?

13 MR. OWEN: I don't really have a problem with it,
14 except that Mr. Scott testified that he wasn't there.
15 So...

16 EXAMINER JONES: Mr. Scott has read a lot of the
17 reports.

18 MR. OWEN: Okay.

19 MR. DOMENICI: It would be based on --

20 EXAMINER JONES: Let's --

21 MR. DOMENICI: -- his experience and reading the
22 reports.

23 EXAMINER JONES: Yeah, let's -- We questioned him
24 extensively, but let's try another question or two if you
25 want to.

1 LARRY R. SCOTT (Recalled),
2 the witness herein, having been previously duly sworn upon
3 his oath, was examined and testified as follows:

4 DIRECT EXAMINATION

5 BY MR. DOMENICI:

6 Q. Mr. Scott, have you had a chance to read again
7 the reports of the workover activity?

8 A. Yes, I have.

9 Q. And before you answer this, is this something you
10 do? Do you read over these kind of reports to try to
11 determine whether you want to workover a well yourself or
12 purchase one or determine the status of a well?

13 A. I have significant expertise with daily drilling
14 and completion reports.

15 Q. And based on --

16 A. That's what I do for a living.

17 Q. -- that, do you use those to infer the quality of
18 wells or to make determination about how activities took
19 place and why?

20 A. Correct. Now, I must necessarily infer what went
21 on, but the original order demanded that cement be
22 circulated from 6500 feet up to the surface, and they got
23 down there with holes in the pipe above and below that
24 interval and were unable to circulate -- I mean, they were
25 pumping water with no returns -- and at that point

1 determined that there was holes in the casing at
2 approximately the 7600-foot interval. The depth
3 discrepancies may well have been the difference between
4 wireline measurements and tagging it with drill pipe. I
5 don't consider those to be significant at all.

6 But what happened, they went in with that packer
7 and started testing the annular space, and they kept
8 testing that annular space till they got a good test at
9 approximately the top of the San Andres. And that's where
10 the holes were perforated in the production pipe and cement
11 circulated to surface.

12 I think ultimately we can say they got the best
13 cement job they could get on this well, given the fact that
14 they had mechanical problems with holes in the casing and
15 given the fact that they could not establish circulation
16 down in the interval where you all were originally wanting
17 to see cement.

18 MR. DOMENICI: That's all I have.

19 THE WITNESS: I do -- I did see a pressure chart
20 that, to me, verified mechanical integrity from the packer
21 setting depth up.

22 Clearly, I think the thinking of the people on
23 the ground at the time was that, you know, if we can
24 demonstrate that we're containing those fluids from the San
25 Andres up and from the base of the Glorieta down, they

1 interpreted the order, I think, also said somewhere that
2 they were authorized to inject in the San Andres and
3 Glorieta, and I'm not sure that that interpretation didn't
4 expand the vertical interval to include all of that.

5 You are exactly correct in that we can't
6 determine with any certainty in that gross interval because
7 there is little or no cement over most of that, probably,
8 and they were unable to place cement because of lost
9 circulation.

10 EXAMINER JONES: Mr. Owen?

11 CROSS-EXAMINATION

12 BY MR. OWEN:

13 Q. Mr. Scott, can you find Exhibit 7 in front of
14 you. It says "App-7" with the --

15 A. Yes, sir, I do.

16 Q. Can you turn to page 2 for me? Second full
17 paragraph starts, "Prior to perforating..."

18 A. Uh-huh.

19 Q. Do you see that? Third line down -- second line
20 down, in the middle of it, says, "...then perforate
21 above...current cement top at approximately 9762 feet and
22 squeeze cement through perforations to the surface."

23 A. Uh-huh.

24 Q. They're required to squeeze cement from 9762, not
25 6500; is that right?

1 A. I believe it said "...above the current cement
2 top..."

3 Q. "...at approximately 9762..."; is that right?

4 A. That is the current cement top.

5 Q. Okay. So then they were required to squeeze
6 cement from that depth to the surface; is that right?

7 A. No, I believe they were wanting them to perforate
8 somewhere above that cement top and circulate from that
9 point up.

10 Q. Okay, so when it says "...current cement top at
11 approximately 9762...", it doesn't mean "...current cement
12 top at approximately 9762...", it means something else?

13 A. Well, you can't perforate at the cement top with
14 any expectation of being able to pump anything into it,
15 because that cement strings up the hole above where a
16 temperature survey would normally indicate top of cement.
17 They would necessarily have to perforate somewhere above
18 that in order to have any hope of establishing circulation.

19 Q. 3000 feet above it?

20 A. 3000 feet would be excessive.

21 Q. And they actually never circulated cement --

22 A. Unable to circulate anything, let alone cement.

23 Q. Okay, if I can finish my question, they never
24 actually circulated cement from 6500 feet to the surface,
25 did they?

1 A. They circulated it from approximately 4400 feet
2 to the surface.

3 Q. So the answer to my question would be no?

4 A. That would be correct.

5 Q. Okay, and they never circulated from 9762 to the
6 surface?

7 A. That would also be correct.

8 MR. OWEN: Okay, thank you.

9 EXAMINER JONES: Okay, I don't have any
10 questions.

11 MR. OWEN: That's all I have.

12 MR. DOMENICI: That's all the witnesses we have.

13 EXAMINER JONES: Okay.

14 MR. DOMENICI: I would like to make sure all our
15 exhibits are in, if I could just go through them.

16 Exhibit 1 is in, as I understand it.

17 MR. OWEN: If you just want to move them *en*
18 *masse*, that's fine with me.

19 MR. DOMENICI: Okay, we move all the exhibits in,
20 then.

21 EXAMINER JONES: 1 through 13?

22 MR. DOMENICI: Yes.

23 EXAMINER JONES: In case we haven't before,
24 Exhibits 1 through 13 of the Applicant are admitted to
25 evidence.

1 Mr. Owen?

2 MR. OWEN: Call Mr. Danny Watson.

3 DANNY RAY WATSON,

4 the witness herein, after having been first duly sworn upon
5 his oath, was examined and testified as follows:

6 DIRECT EXAMINATION

7 BY MR. OWEN:

8 Q. Tell us your name, please.

9 A. My name is Danny R. Watson.

10 Q. Where do you live?

11 A. Tatum, New Mexico.

12 Q. Where do you work?

13 A. I'm self-employed, currently on DKD Saltwater
14 Disposal and Danny's Hot Oil Service.

15 Q. Okay, what do you do with DKD Saltwater Disposal?

16 A. We just receive water from trucking companies and
17 dispose of it.

18 Q. Have you previously testified before this
19 Division and had your credentials as a practical oilman
20 recognized and made a matter of record?

21 A. Yes, I have.

22 MR. OWEN: We move that Mr. Watson be recognized
23 as an expert practical oilman.

24 EXAMINER JONES: Mr. Watson is qualified as an
25 expert practical oilman.

1 Any objections?

2 MR. DOMENICI: Well, what practical -- I would
3 like to voir dire, I guess, yes.

4 EXAMINER JONES: Say again?

5 MR. DOMENICI: Can I voir dire him, can I ask him
6 some questions?

7 EXAMINER JONES: Sure.

8 VOIR DIRE EXAMINATION

9 BY MR. DOMENICI:

10 Q. What practical experience have you had as an
11 oilman?

12 A. I've also owned four oil and gas leases
13 previously and run them, operate them, made them work.
14 I've run hot oil units and extensively familiar with crude
15 oil. I've done that for over 25 years, been in the oil
16 business for way too long, probably around 35 years.

17 Q. Do you have any training in hydrology?

18 A. No.

19 Q. Do you have any experience in water production?

20 A. Yes.

21 Q. What's that?

22 A. Due to producing my own oil wells. Also had a
23 brine station. I understand how to make brine water very
24 efficiently, and we used to transport it all the time in
25 trucks and I've worked with it extensively through my

1 disposal.

2 MR. DOMENICI: No objection.

3 EXAMINER JONES: Okay.

4 DIRECT EXAMINATION (Resumed)

5 BY MR. OWEN:

6 Q. (By Mr. Owen) Okay, Mr. Watson, let's turn to --
7 why don't you turn to DKD exhibits, they're clipped
8 together, probably has an application for authorization to
9 inject on top; do you see that?

10 A. Yes, for Pronghorn Management?

11 Q. Yes, sir.

12 A. Okay.

13 Q. Let's turn now to the color photographs that were
14 attached as Exhibit J.

15 A. Okay.

16 Q. Do you recognize those?

17 A. Yes, I do.

18 Q. What are they?

19 A. That is Gandy's facility that they built, and
20 it's what you normally see every day up there, trucks
21 unloading in it.

22 Q. What are those -- when you say trucks unloading
23 in it, there are three trucks pictured in that first
24 picture.

25 A. Okay, the two trucks on the left-hand side are

1 unloading into the big black tanks. The truck on the
2 right-hand side, apparently they had some sort of trouble
3 and they was probably working on something that they have
4 there. I don't know what he's doing.

5 Q. Okay. And then turn to the second page. Is that
6 -- Were you present when these pictures were taken?

7 A. Yes, I were.

8 Q. Were these pictures all taken about the same
9 time?

10 A. Yes, they were.

11 Q. Is that second page just a close-up of those two
12 trucks that are pictured on the first page?

13 A. Yes, sir, it is.

14 Q. Does it show them unloading?

15 A. Yes, sir.

16 Q. All right. Is the third page just basically a
17 duplicate of that first page?

18 A. That is correct.

19 Q. What about the next page?

20 A. Yes, on Exhibit -- it just shows another truck
21 coming in to unload, is all.

22 Q. And the next page?

23 A. Just a duplication of the last page.

24 Q. Okay. What time were these pictures taken?

25 A. Approximately 11:30.

1 Q. Do they accurately depict the scene at that time?

2 A. Yes, they do.

3 Q. All right. Is that Mr. Gandy's injection

4 facility?

5 A. That's his receiving station, yes.

6 Q. I'm sorry, Gandy Corporation's injection

7 facility?

8 A. Yes.

9 Q. Okay, thank you. And I want you to turn to

10 Exhibit M, several pages down. It's handwritten. Probably

11 the last page of that packet, Mr. Watson.

12 A. Exhibit M, yes.

13 Q. Do you recognize that?

14 A. Yes, I do.

15 Q. What is it?

16 A. It was just a documentation that we were running

17 -- both me and an employee I have, just seeing how many

18 loads was coming in.

19 Q. Coming in where?

20 A. Coming into Gandy's water station?

21 Q. Do you know this to be accurate?

22 A. Yes, I do.

23 Q. How do you know it to be accurate?

24 A. Because I filled out about half of it, and my

25 employee filled out the other half because I paid him to

1 sit there and watch.

2 Q. Okay. Let's turn to the second page of that
3 exhibit.

4 A. Okay.

5 Q. Can you tell me how many loads were unloaded at
6 that facility after 8:30 in the morning on June 29th, 2004?

7 A. On the 29th?

8 Q. Yes, sir.

9 A. Approximately nine loads.

10 Q. Okay. Are two or three of those loads the trucks
11 that are pictured on Exhibit J?

12 A. Yes, sir, they are.

13 Q. Okay. I want you to turn to -- within the Gandy
14 Exhibits, Exhibit Number 2. Exhibit Number 1 is a big
15 thick exhibit, Exhibit Number 2 is a one-page map. It's
16 sitting on your right-hand side, right now.

17 A. Oh, this one here? Okay.

18 Q. Does that accurately reflect the acreage in the
19 area around this disposal location?

20 A. Yes, pretty close.

21 Q. Do you have a disposal well in the same section
22 as the proposed well in this case?

23 A. Yes, I do.

24 Q. Where is that well?

25 A. From the proposed well, if you'll come down a

1 little southeast, and it has like "Patterson" right below
2 the "J.B. Selman". But the Patterson right there beside
3 it, that should be my disposal well.

4 Q. It's right below the word "Selman"?

5 A. Yes, it is.

6 Q. Okay. Then there's another well, a dryhole
7 marker to the west of that. Do you see that?

8 A. Yes.

9 Q. Right above the word "Patterson"?

10 A. Right above the word "Patterson", yes, sir.

11 Q. What's that?

12 A. That is -- I believe that is where my Snyder A
13 Number 1 well is.

14 Q. Okay, we'll get to that Snyder A Number 1 in just
15 a minute, but I want to talk to you about what you own in
16 the area. I want you to turn -- Leaving that Exhibit
17 Number 2 kind of on the side, I want you to turn to DKD
18 Exhibit Number K. It's right after the photo.

19 A. Okay.

20 Q. Do you recognize that?

21 A. Yes, I do.

22 Q. What is it?

23 A. That's change of operator from Chesapeake
24 Operating to DKD, L.L.C., for the Watson 6 Number 1 --

25 Q. Okay.

1 A. -- which is my SWD.

2 Q. And are there some pages and instruments that
3 follow that?

4 A. Yes, they are.

5 Q. What are they?

6 A. That's a bill of sale and conveyance to all
7 rights, title and interest to the wellbore and
8 approximately 50 acres of minerals.

9 Q. Okay. Looking back at Exhibit Number 2, where --
10 how close to the proposed disposal location do your 50
11 acres of minerals come?

12 A. I'm approximately -- probably, oh, less than 400
13 yards to the east.

14 Q. Now, is that your disposal well, or is that
15 actually your mineral acreage?

16 A. That should be my mineral acreage.

17 Q. 400 yards to the east?

18 A. Yeah, maybe a little less.

19 Q. Does it run basically due north from your
20 disposal location?

21 A. Yes.

22 Q. How far up the section does it run?

23 A. It goes all the way up there to the State "T"
24 Number 4.

25 Q. Okay. And then does it come back east?

1 A. It goes back east to that line there, which is a
2 fenceline.

3 Q. Okay. Are you the current -- Do you currently
4 hold the rights to the minerals under that acreage you've
5 just described?

6 A. Yes, I do.

7 Q. And do you hold it under the assignment and the
8 state mineral lease that are attached to Exhibit Number K?

9 A. Yes.

10 Q. Okay. Is there an interval limitation on your
11 mineral rights? Do you only have rights to certain
12 intervals?

13 A. All the way down to the Strawn, top of the
14 Strawn.

15 Q. From surface to Strawn?

16 A. That's correct.

17 Q. Okay. Let's move to Exhibit Number L, please.
18 Can you tell me what that is?

19 A. I'm not sure mine is -- I've got the right one
20 here.

21 Q. It also says "Change of Operator". It may help
22 if you take the clip off, Mr. Watson.

23 A. Yes. Okay, yes, it is change of operator from
24 Energen Resources to DKD for the Snyder A Number 1.

25 Q. Looking back at Exhibit Number 2, Gandy's Exhibit

1 Number 2, where is that well on that map?

2 A. It's directly south of Gandy's SWD by one
3 location.

4 Q. Is it right above the word "Patterson"?

5 A. Right above the word "Patterson", right below the
6 Watson.

7 Q. How much -- Attached to that change-of-operator
8 form are a wellbore assignment and conveyance. Can you
9 tell me what -- and a bill of sale. Can you tell me what
10 those are?

11 A. It's a bill of sale and a wellbore assignment to
12 me from Energen for all rights on it up to, I believe,
13 around 40 acres so that I can produce it.

14 Q. Forty acres of minerals?

15 A. Yes.

16 Q. And the wellbore itself?

17 A. Around the wellbore, yes.

18 Q. What are you going to do with that well?

19 A. It is my intentions to go in and test the bottom
20 zone to see if they did walk off and leave anything. And
21 if it does not produce, it was my intentions to come up to
22 the San Andres zone and try it.

23 Q. Okay. Why do you think you can get something
24 from the San Andres zone?

25 A. Well, I guess basically because my understanding

1 is that it has to have a little bit of oil in it. It may
2 not be enough for commercial people, but also I'm not very
3 big, so I don't have to have as much little. If it makes
4 five or ten barrels a day, that's big money to me.

5 Q. What if it makes 90 barrels of oil with that five
6 barrels a day?

7 A. Of oil?

8 Q. Of water, pardon me.

9 A. Oh, of water? That's not any problem because
10 I've got my own disposal sitting --

11 Q. Is it going to make it uneconomic for you to pump
12 that water out of that well?

13 A. It would be a little more costly, but it won't be
14 that bad.

15 Q. How much is it going to cost you to pump 90
16 barrels of water out of a well?

17 A. Oh, in a ballpark -- this is probably high --
18 ballpark, maybe 10 cents a barrel, maybe.

19 Q. Okay. Ten cents a barrel, regardless of how much
20 you're pumping?

21 A. Yeah, it's going to cost that to handle that
22 water myself.

23 Q. Do you know what the current price of oil is?

24 A. Oh, above 30.

25 Q. How much would it cost you to pump out a hundred

1 barrels, 99 of which are water and one of which is oil?

2 A. Well, that would cost me a little bit more, but
3 that -- probably about -- including electricity and
4 everything, probably about \$12 a day.

5 Q. Okay. Would that be an economic well for you?

6 A. It would be somewhat tougher, but it would
7 probably work out.

8 Q. What if it went up to 10 barrels of oil in that
9 100 barrels?

10 A. I'd make pretty good money on that at \$30 a
11 barrel.

12 Q. What are you going to do with that water?

13 A. I'd just truck it over to my disposal and put it
14 down the well.

15 Q. Okay. When you were here for the two previous
16 hearings, you said you might drill a well close to your
17 disposal well, and you didn't have any plans to -- What
18 preparations have you made to drill this Snyder A Number 1?

19 A. Snyder A Number 1 is already in existence, it's
20 just an abandoned location that I acquired. I've already
21 got my tubing, got all my packers -- or no, but my anchor,
22 I've got new rods, pumps, I've got everything pretty well
23 ready to go. I've been waiting on a pulling unit for about
24 three and a half weeks.

25 Q. Okay. Are there other locations in that area

1 that you're considering for the San Andres zone?

2 A. If the Watson -- or the Snyder A Number 1 was
3 paying out and I can make some decent money with it, I'd
4 really kind of like to take a look at that Number 4 over
5 there, that State "T" Number 4, and I would like to try to
6 go back into it or get back into it somehow.

7 Q. Okay, let's -- I want you to turn to Gandy's
8 Exhibit 1, it's the big thick exhibit. About two-thirds of
9 the way down there is a C-103 for the State "T" Well Number
10 4.

11 A. Okay.

12 MR. OWEN: Mr. Examiner, are you --

13 Q. (By Mr. Owen) Well, let's turn to the second
14 page of that. It shows a wellbore diagram. Do you see
15 that?

16 A. Yes.

17 Q. Were you there when that well was plugged?

18 A. Yes.

19 Q. Does it indicate that a plug was set somewhere in
20 that -- at about 5501?

21 A. Yes.

22 Q. Were you there around that time when that well --
23 when that plug was set and that plugging operation was
24 going on?

25 A. Yes, nearly daily I was there in and out, yes.

1 Q. Is there anything about that plugging operation
2 that would cause you to believe that there's oil in that
3 San Andres?

4 A. Yeah, definitely.

5 Q. What?

6 A. Whenever they cut the casing off at 5500 feet,
7 approximately, I drove down there to see what they got out,
8 and they got it out late that afternoon. And the pipe was
9 heavily laid in dark oil, which I'm going to call San
10 Andres, because I'm just -- through experience I'm sure
11 that's what it was.

12 And that evening we had to circulate
13 approximately 50 barrels out of that hole in order to clean
14 it up so they could get cement on the bottom of it.

15 Q. What did that casing look like?

16 A. It looked pretty good down to approximately 4800
17 foot, and I didn't take a measurement, but about 4800 foot
18 down to 5500 it just got really bad, what I call -- what
19 you call Swiss-cheese-looking pipe.

20 Q. What do you mean by that?

21 A. Well, from 4800 foot, the first three or four
22 joints had anywhere from three to maybe 30 holes in the
23 pipe, and then as it got down closer to 5500 foot where
24 they shot it off, what I saw -- they probably wouldn't even
25 have to shoot it off, it would just come apart, come out.

1 Q. Okay. Now, you said that there was about 50
2 barrels of oil in that wellbore; is that right?

3 A. That's correct.

4 Q. Was that sitting on top of that plug at 5501?

5 A. They hadn't run the plug at that time. It was
6 right after they shot the casing. They shot it, pulled the
7 casing out, got it out late that night, and then they
8 circulated that oil off of it in order to clean the hole
9 up.

10 Q. Do you know if they had that cast-iron bridge
11 plug that's set down at 10,727 at that time?

12 A. Yes, I'm sure they did.

13 Q. And was that above the producing zone for this
14 well?

15 A. Yes.

16 Q. Okay, what happened the next day?

17 A. Next morning, whenever we got there, well, they
18 had to circulate another 30 barrels off of it in order to
19 get it cleaned up again so that they could run a cement
20 plug in there.

21 Q. Did you see that oil?

22 A. Yes, I did.

23 Q. Did you see that 30 barrels, that it was 30
24 barrels --

25 A. Yes, and I'll have to say it's all approximately

1 because we had it in their truck, and I'm not sure what
2 size truck it was. We were estimating.

3 Q. Okay, do you have any opinion as to what
4 formation that oil came out of?

5 A. In my opinion, it came out of the San Andres.

6 Q. Why is that your opinion?

7 A. Due to the extensive background that I have in
8 dealing with crude oil --

9 Q. Okay.

10 A. -- and working crude oil, the texture, the smell,
11 all indications that I've seen from visual inspections,
12 that's what it looked like.

13 Q. In your opinion, is there oil, hydrocarbons, in
14 commercial quantities in the area around the proposed
15 injection in the San Andres zone?

16 A. From what I saw on that, I'd have to base that
17 there is some there.

18 Q. Okay, in your opinion would granting the
19 Application in this case, which includes increasing the
20 injection zone significantly above the previously
21 authorized zone, result in waste of oil?

22 A. I would think so, yes, in my opinion.

23 Q. Why?

24 A. Well, because at the present time -- and again I
25 am not a geologist, but as that porosity is great enough

1 that they try to perforate it to make it take water, it
2 should be great enough to give up some.

3 Q. Okay. And if water is injected in there at the
4 rate of 1500 to 2000 barrels a day --

5 A. Correct.

6 Q. -- what's going to happen to that oil?

7 A. Well, in their indication where they're on a
8 vacuum, I don't know that they're going to actually flood
9 it out, but I don't know that it's not technically sucking
10 it out or thieving it out of that zone.

11 Q. Taking it down to another zone?

12 A. Possibly.

13 Q. Will that oil then be wasted?

14 A. Oh, yeah, if it goes down that disposal well it's
15 gone.

16 MR. OWEN: Okay. That's all I have.

17 EXAMINER JONES: Mr. Domenici?

18 CROSS-EXAMINATION

19 BY MR. DOMENICI:

20 Q. Let me just make sure I understand. The plugging
21 that you just described, that took place in 1993?

22 A. No, it was on the plugging list for over 10
23 years. It took place in 12-11-02.

24 Q. So that took place before the hearing in front of
25 the Commission?

1 A. That is correct.

2 Q. And you either had that available or could have
3 presented that to the Commission, correct, in the previous
4 hearing on this injection well?

5 A. Yes, sir.

6 Q. Did you present that to the hearing?

7 A. I don't believe I was given an opportunity to,
8 no.

9 Q. Did you attend the hearing?

10 A. Yes, sir.

11 Q. Did you testify?

12 A. Yes, sir.

13 Q. And were you ordered not to talk about that? Was
14 there a ruling that said you couldn't talk about that?

15 A. No, sir.

16 Q. So you did have an opportunity to talk about it?

17 A. Probably. It was one of my first hearings, and
18 I'm unfamiliar with what was happening at that time.

19 Q. And you didn't present that at that time, is your
20 best recollection?

21 A. I believe I did. If I didn't, I know I did on
22 the *de novo* hearing.

23 Q. Well, that's what I'm talking about, the *de novo*
24 hearing.

25 A. All right, the *de novo* hearing, yes, I did

1 present that.

2 Q. Okay, so you presented that, and that argument
3 has already been ruled on by the commission, correct?

4 A. Yes, sir.

5 Q. That exact same plugging incident that you just
6 described --

7 A. Yes, sir.

8 Q. -- has already been presented to *de novo* hearing,
9 correct?

10 A. Yes, sir.

11 Q. And other than that, you don't have any data from
12 -- well, not even including that. You don't have any data
13 from the last hearing, which was March of 2003? And that
14 means sample results, test data. You don't have any data
15 to show that there would be any commercially viable oil and
16 gas production to present today, correct?

17 A. No, sir, I just know what I saw.

18 Q. What you have is, you were able to acquire a well
19 that Energen was abandoning?

20 A. That is correct.

21 Q. And what did you provide Energen in exchange for
22 that well?

23 A. A little money.

24 Q. How much?

25 A. I think I gave them -- I had to pick up the

1 plugging bond for \$10,000, plus give them a little bit for
2 the paperwork, which was probably a hundred bucks.

3 Q. And where is that agreement today?

4 A. The agreement for the Energen well?

5 Q. Yes.

6 A. Well, it's right there in that assignment.

7 Q. And is that where -- does that recite everything
8 you gave Energen for that well?

9 A. Yeah.

10 Q. There's no other paperwork on that transaction?

11 A. Not other than the -- what I've got right there
12 in lease and conveyance on it.

13 Q. So you took over the plugging responsibility?

14 A. That is correct.

15 Q. And as I understand it, you're going to be trying
16 to produce from the deeper zone?

17 A. Yes, sir, the Wolfcamp at the present time.

18 Q. Now, let's -- if you can look and -- just so I'm
19 clear -- and you don't have any data from that well since
20 you've acquired it, to show what it might produce at the
21 San Andres level, correct?

22 A. No, I do not.

23 Q. And looking at your Exhibit B --

24 A. My Exhibit B.

25 Q. -- which would be, I guess, part of that

1 package --

2 A. Okay.

3 Q. -- the last page of that is a -- What is that
4 last page?

5 A. Looks like a geographical deal where the State
6 "T" Number 2 is.

7 Q. Okay, I want to be sure we understand what well
8 you're talking about on the Snyder A. Is that shown on
9 there just above -- I think it's as --

10 A. Technically, it's called the Gillespie Snyder A,
11 1 A. That's due south of the State "T" Number 2. It says
12 Gillespie 57, Snyder 1 A. It would be the second well off
13 the bottom there, right in the center.

14 Q. And did you acquire that primarily for purposes
15 of possibly using it in a proceeding that Gandy might have
16 for injection --

17 A. No.

18 Q. -- to increase their injection?

19 A. No, I acquired it because the company man and I
20 was over there, and we blowed gas on it for about three
21 hours and we couldn't get it to blow down. And again,
22 that's not any money for the big people, but it's pretty
23 good money for a little guy like me.

24 Q. What other abandoned wells or wells for plugging
25 costs have you picked up in the, say, one-mile vicinity?

1 A. None, other than the Watson 6 Number 1, because I
2 own the land on it.

3 Q. Okay, what is the difference between the Snyder 1
4 A and the Snyder A?

5 A. Okay, the Snyder 1 A is mine. In other words,
6 it's setting there by itself, right beside a -- what used
7 to be the Gillespie, which is now Energen. And the A
8 Number 1 is still Energen's, which is close to Gandy's
9 unload facility.

10 Q. So the Snyder A 1 is --

11 A. -- is still Energen's.

12 Q. -- is still Energen. Was that their offset well?

13 A. Yes. I believe they actually called that the A
14 Com Number 1, I believe.

15 Q. And how far is that well from the -- if you know,
16 from the Gandy well?

17 A. It's just one location, so it's only -- gosh,
18 it's -- it can't be over 1200 feet, I don't believe. It
19 might be that far, but I just don't believe it is.

20 Q. Now, on this Exhibit M, the log that you kept --

21 A. Yes.

22 Q. -- why did you keep this log?

23 A. Well, really I can't explain that. I don't know
24 why, we just started keeping it. Now, however, I believe
25 on that first day there, I believe was the day that we

1 finally found out that there was a shut-in order,
2 supposedly for Gandy, backdated May 3rd.

3 Q. So the 22nd, June 22nd, is when you started
4 keeping this log?

5 A. Right.

6 Q. And that --

7 A. That's the first time I got wind of it at all.
8 And you've got to understand that that log is only when we
9 were there. We didn't set there all the time, just setting
10 there, trying to pick -- they just -- whenever we went by
11 and noticed it, most of it.

12 Q. Well, were you aware on June 21st, the day before
13 you started this log, that your attorney had told the OCD
14 that -- or had asked for an ext- -- to postpone the
15 hearing, the original hearing in this matter?

16 A. Yes, I was aware of it.

17 Q. And were you aware that on the 21st your attorney
18 had said, it doesn't appear the Applicant will be
19 prejudiced by the requested extension because the saltwater
20 disposal well at issue is currently in use pursuant to New
21 Mexico OCD order?

22 A. Yes, sir, I'm aware of that.

23 Q. And so the following day, you started keeping a
24 log?

25 A. That is correct.

1 Q. Did you still think that there would be no
2 prejudice to Gandy in delaying the hearing --

3 A. No, sir, I didn't.

4 Q. -- to the 22nd?

5 A. I was not aware that they had a shut-in order at
6 that time.

7 Q. But on the 22nd you were?

8 A. That is correct.

9 Q. So between the 21st and 22nd, you learned
10 something?

11 A. That is correct.

12 Q. And you were aware by the 22nd that if the well
13 was shut in by the OCD, there would be prejudice to Gandy?

14 A. No, I thought they were going to get to operate.
15 I had no opinion on that.

16 Q. Why were you keeping a log, then, if you thought
17 they were allowed to operate it?

18 A. Because they said that they had -- My attorney
19 called me and told me that there had been an issue of cease
20 and desist May the 3rd, but they had a verbal agreement to
21 go ahead and operate it.

22 Q. So you started keeping a log, even though you
23 understood they were allowed to operate --

24 A. Yes.

25 Q. -- is that your testimony?

1 A. Yes.

2 Q. And then you took photos the 29th?

3 A. That is correct.

4 Q. Why did you take photos on that day?

5 A. You know, you're not going to believe me when I
6 tell you this, but I was just real lucky. I had no idea
7 what was coming down. I honestly did not.

8 Q. And you don't have any information that Dale
9 Gandy himself knew about that order --

10 A. No.

11 Q. -- at the time you were taking the photos?

12 A. That is correct. We had no knowledge whatsoever.

13 Q. Let me ask you in my exhibit package there, which
14 is all torn up, but it's Applicant's Exhibit 7 -- or
15 actually Applicant's Exhibit 8 --

16 A. Am I looking in the right one?

17 Q. It must have got taken apart from that, I think,
18 by the --

19 A. Oh, okay, here's 7.

20 Q. Okay, look at 8.

21 A. 8, okay.

22 Q. Look at paragraph 9, if you will, in that. The
23 part that says "Later, Pronghorn, after a conversation with
24 a Division engineer, requested that it be permitted to
25 inject from 6,000 to 6,400." Do you see that?

1 A. Yes, I do.

2 Q. And you were part of that hearing. Do you recall
3 that discussion --

4 A. Yes.

5 Q. -- at the hearing --

6 A. Yes, I do.

7 Q. -- that a discussion between Pronghorn and the
8 engineer resulted in an extension of that interval?

9 A. Yes, because they wanted to change that, and they
10 didn't do that until they were sitting right here in this
11 hearing, in front of the Commission. They originally
12 wanted 6000-6200 feet, and they asked for another 200 feet
13 to get in 6400 feet, and apparently the Commission granted
14 it to them. It was never applied for. They just asked for
15 it in this hearing, and they got it.

16 Q. And did you hear an engineer testify that there
17 was a conversation with the Division engineer?

18 A. I guess I don't really know what you're leading
19 up to. What --

20 Q. Did a Division engineer confirm that there had
21 been this conversation, to your recollection?

22 A. About increasing the intervals?

23 Q. Yes.

24 A. Yes. Now, I'm not sure who you're calling an
25 engineer, but yes.

1 Q. Now, isn't it true that until you -- if you ever
2 do try to produce from the San Andres, you won't have any
3 data that shows that San Andres is capable of production?

4 A. I'm sorry, I missed --

5 Q. Isn't it true that until you actually try to
6 produce from the San Andres, you won't have any data that
7 would indicate that there is commercially viable production
8 there?

9 A. Not in that immediate area right there.

10 Q. And you don't have that data, and you don't know
11 when you're going to get that data, correct?

12 A. That's true and correct, although they run a
13 seismograph across me about two weeks ago. I did visit
14 with an engineer with them, and he told me he'd be more
15 than happy to give me a reading on all the zones in there.

16 Q. But you don't have it today?

17 A. I do not have it as of today.

18 Q. And do you know if the Division keeps continuing
19 jurisdiction over y our well permits?

20 A. Yes, they do.

21 Q. And do you know if they would propose to keep
22 continuing jurisdiction over this well permit?

23 A. I would think so, yes.

24 Q. And so if there actually is data established that
25 shows there might be a threat to your rights, the Division

1 would have jurisdiction to handle that, correct?

2 A. I think that's correct.

3 Q. And that's the same that's true of your disposal
4 well?

5 A. That is very correct.

6 MR. DOMENICI: That's all I have.

7 EXAMINER JONES: Mr. Owen, do you have any --

8 MR. OWEN: I do have a couple of follow-up
9 questions.

10 REDIRECT EXAMINATION

11 BY MR. OWEN:

12 Q. And Mr. Watson, I want you to understand that I'm
13 going to ask you a couple of follow-up questions to Mr.
14 Domenici's questions that are going to call for attorney-
15 client-privileged information, that is, things that I told
16 you or things that you told me. That privilege belongs to
17 you and you don't have to answer the question if you don't
18 want to answer the question.

19 A. Okay, I did not understand that.

20 Q. Okay, I'm going to ask you about a couple of
21 conversations that we had. It's up to you to answer them.
22 You don't have to answer those questions, because it calls
23 for attorney-client information, privileged information --

24 A. Okay.

25 Q. -- between you and I.

1 First, I want to ask you, was I down in Tatum on
2 June 29th? Did I visit with you in Tatum on June 29th?

3 A. Yes, you did.

4 Q. And did we talk about whether there was some sort
5 of order shutting in Gandy's operation?

6 A. Yes, there was.

7 Q. Yes, we talked about it, or yes there was?

8 A. Yes, we talked about it.

9 Q. Did I indicate to you whether or not I knew that
10 such an order was in place?

11 A. Yes, you did.

12 Q. Did I indicate that I didn't know what the
13 situation was, that I had not been able to obtain that
14 document?

15 A. Yes, you did.

16 Q. Is the first time you saw that document the
17 following day when it was faxed to you with a response to
18 an application for emergency relief?

19 A. Yes, that's the first time I saw anything in
20 writing.

21 Q. Okay. The original application in this case, did
22 it seek authority to inject from 6000 to 6200 feet?

23 A. The original application, yes.

24 Q. Did the original order permit injection from 6000
25 to 6200 feet?

- 1 A. State that again now?
- 2 Q. I want you go turn -- go ahead and turn back to
- 3 -- I believe it's Gandy's Exhibit Number 7. That's the
- 4 order from the OCD.
- 5 A. Okay.
- 6 Q. Do you see that?
- 7 A. Yes.
- 8 Q. Top of page 2?
- 9 A. Top of page 2?
- 10 Q. Top of page 2.
- 11 A. All right.
- 12 Q. Does it authorize 6000 to 6200 feet?
- 13 A. Yes.
- 14 Q. Okay, I want you to turn to Gandy Exhibit Number
- 15 8.
- 16 A. Okay.
- 17 Q. Turn to the last page, page 6. Do you see "It is
- 18 therefore ordered that" down at the bottom?
- 19 A. Are you talking about the last page where "Lori
- 20 Wrottenbery", Chair?
- 21 Q. Yes, sir.
- 22 A. Okay.
- 23 Q. Do you see paragraph number 1 and 2 under the
- 24 words, "It is therefore ordered that"?
- 25 A. Yes.

1 Q. Anywhere in those paragraphs does it say that the
2 injection interval is increased to 6400 feet?

3 A. No, sir, I do not see it.

4 Q. Okay. I want you to turn to Gandy's Exhibit
5 Number 1 -- it's the big, thick exhibit -- and you're going
6 to need to go 17 pages down to a page that says
7 "Instructions", and it's got Roman numeral VIII in black
8 marker.

9 A. 17 pages?

10 Q. Yes, sir, it's quite a ways down.

11 A. Application for Disposal -- Oh, okay. Okay,
12 number what?

13 Q. It has Roman numeral VIII up at the top, on the
14 top right?

15 A. Yes, okay.

16 Q. All right. Does it indicate -- In there does it
17 indicate the top of the San Andres and footage?

18 A. Yes.

19 Q. What's that?

20 A. Top of San Andres appears to be forty-six-six-
21 eighty, as I read it.

22 Q. And what's the top of the Glorieta?

23 A. 6224.

24 Q. What was the original interval authorized by this
25 Division?

1 A. 6000 to 6200. Are you talking about from this
2 order right here?

3 Q. Yes, sir, from the --

4 A. Right.

5 Q. -- original Division order.

6 A. Right, on Exhibit 8.

7 Q. When you testified in the Division and the
8 Commission hearings, when you were examined, was the
9 examination about -- was all of the examination about
10 intervals below 6000 feet?

11 A. Only 6000-6200, as far as I can remember.

12 Q. Is that what people talked about in those two
13 hearings?

14 A. Yes.

15 Q. Is that what you were examined about in those two
16 hearings?

17 A. Yes.

18 Q. Where was that plug in the State "T" Well Number
19 4 that you saw plugged?

20 A. Where I saw plugged?

21 Q. Yes, sir.

22 A. About 5500 feet.

23 Q. Was there oil above that?

24 A. Yes.

25 Q. Were you asked about any oil above 6000 feet in

1 the previous Division Examiner hearing or the Commission
2 hearing?

3 A. I believe there wasn't.

4 MR. OWEN: Okay. That's all I have.

5 EXAMINATION

6 BY EXAMINER JONES:

7 Q. Mr. Watson --

8 A. Yes, sir.

9 Q. -- how many plugged wells have you witnessed over
10 the years, or just approximately?

11 A. Man, I'd have to take off my shoes and count all
12 of them. We've been involved in a numerous amount of them.
13 We used to have a vacuum truck and transport business, and
14 we've been in numerous of them, hauling water to them, and
15 my curiosity has always got me and I've always tried to
16 watch -- try to learn something.

17 Q. How often have you seen oil recovered during
18 plugging operations?

19 A. Oh, I'm going to say at least 25 percent of the
20 time. Not a great lot, but at least -- because I used to
21 have a reclaiming plant, we used to buy it off these people
22 whenever they plugged a well.

23 Q. Are you familiar with the Saunders field?

24 A. Yes, I am.

25 Q. Are you familiar with the new pool in the

1 Saunders field?

2 A. The one where they're coming up in the San Andres
3 and drilling?

4 Q. Yes.

5 A. Yes, I am.

6 Q. Are you familiar with the Saunders Pool when it
7 was only the Permo-Penn?

8 A. Yes, sir.

9 Q. Are you -- Do you have any kind of structure map
10 out here to show any kind of closure on this San Andres
11 zone, to show that you would make anything out of it as far
12 as a geological viewpoint?

13 A. No, sir, at the present time I do not.

14 Q. Have you talked to a geologist or an engineer
15 about the potential in the San Andres?

16 A. Just in brief conversation, and again no one has
17 anything to -- if you'll notice that most of these wells
18 were drilled in 1957, except for my Watson 6 Number 1, and
19 again in Lea County you don't want to mention anything a
20 whole lot if you don't want it out.

21 Q. So you guys are in competition with each other?

22 A. Yes, sir, but that doesn't bother me.

23 Q. And is it your position here that this well
24 operated by Gandy is potentially endangering your
25 recoverable oil reserves that you might have?

1 A. It's a possibility. All I'm trying to do is
2 protect what I have. If you'll notice, I have all the
3 minerals leased to the east of him, and then I have the 40
4 acres straight to the south of him. So I have, if you
5 will, kind of like an L-shape to the south and to the east
6 of him. And all I'm trying to do is to protect -- If I
7 have anything there, all I'm trying to do is protect it.

8 Q. Okay, why haven't you already tried this out
9 here, this concept?

10 A. Due to the lack of funds, plus the thing is, I
11 wound up buying tubing to go in that Snyder A Number 1 in
12 December, I bought the pumpjack, I bought my rods. I had
13 to wait approximately six to eight weeks on rods. I
14 couldn't find any used ones, so I had to order new rods.
15 And now I'm waiting on a pulling unit, and I have been for
16 over three weeks. Due to the spurt and everything, you
17 can't get ahold of metal, you can't get ahold of pumpjacks
18 hardly, you can't get ahold of pulling units. It's just --
19 Everything is busy.

20 Q. Is your saltwater disposal well being affected by
21 this well that Mr. Gandy operates?

22 A. How do you mean "affected by"?

23 Q. Economically affected.

24 A. Sure, it's dropped 50 to 60 percent on the
25 revenue on it. That's fine.

1 Q. How is your well doing?

2 A. It's doing okay.

3 Q. What's the pressure on it?

4 A. Vacuum.

5 Q. So it's a good zone, got a good zone?

6 A. And I'm at approximately 10,800 feet.

7 Q. You're a Cisco injection?

8 A. Bough C and Cisco.

9 Q. So you're below that productive Wolfcamp zone?

10 A. Yes, sir.

11 Q. And how is your casing across the San Andres in
12 your well?

13 A. According to the records, the well was drilled in
14 approximately 1997. Chesapeake went in and put new casing
15 all the way through it. They cemented the top zone, or the
16 -- excuse me, the surface pipe back to surface. They
17 circulated 8-5/8 back to surface, they've circulated cement
18 from 11,300 feet back up with 2800-and-some-odd feet inside
19 the 8-5/8. They told me they were not in the pipe-recovery
20 business, they intended to make it stay.

21 Q. The well that you could possibly re-enter and can
22 possibly do a test in the San Andres, what's the status of
23 them now?

24 A. They are currently plugged. State "T" Number 3
25 was plugged, I believe, in 1990 -- 1990-something. It's in

1 there, but I'm not sure what date it was. I think it was
2 around 1993 or 1995.

3 The State "T" Number 4, I had to write the
4 Commission a letter and force them to plug it and force
5 them to clean up the land. And I think that's a matter of
6 record, and all I'm stating is facts. I'm not belligerent
7 or mad at anybody, it's just a fact.

8 Q. On those wells that you would re-enter, would you
9 have to do some squeeze-cementing operations before you
10 could perforate the San Andres?

11 A. Yes, I'm sure I would.

12 Q. Do you think you could get a good squeeze in the
13 San Andres so that you could actually get a good test in
14 the San Andres?

15 A. Well, if they pull down to 5500 feet on that
16 State "T" Number 4, you just re-enter it and run back down
17 there to approximately 5500 foot or till you hit the plug
18 and then come back up and circulate cement back to surface,
19 more than likely, and then all you've got to do is
20 perforate it and hope for the best or look for the worst.

21 Q. Did you have any kind of estimated payout on an
22 operation like that, or an estimated cost of doing that?
23 Have you looked at that?

24 A. Of drilling into it or --

25 Q. Yeah.

1 A. -- coming up the hole on the Snyder A Number 1?

2 Q. Actually on -- Well, let's do both, one after
3 another. The Snyder A Number 1? What do you think it
4 would cost?

5 A. Snyder A Number 1?

6 Q. Yeah.

7 A. Well, I'll tell you what. I've already got 60-
8 some-odd thousand in that hole right now, just for tubing,
9 rods, pumpjacks, and I expect to tie up another \$10,000
10 getting it tied together, just to go down deep. If it
11 doesn't pan out, it's pretty simple to come up, so all I've
12 got to do is put bridge plugs in it, load it with mud and
13 keep coming up to where I want to go.

14 And I want to -- Again, I'm not real familiar
15 with that, but I figure it's going to cost another \$30,000
16 to do that, maybe \$40,000.

17 Q. Are you just going to try the Wolfcamp first?

18 A. That's correct, where it's at.

19 Q. And then are you going to shoot any part of the
20 Glorieta?

21 A. No, I wasn't planning on going in the Glorieta.

22 Q. Is that because of what you saw on the San Andres
23 or because of the log analysis you've done on these wells?

24 A. Because of what I have seen in the San Andres.

25 Q. Yeah.

1 A. And you know, in my past experience, a lot of
2 older men that I've worked with and for, they're finding
3 more and more all the time that you're missing two- or
4 three-foot zones. And they may not make a tremendous
5 amount of money but they pay out pretty quick. And I
6 honestly believe that -- no offense, Larry, but I honestly
7 believe that many times it's over-engineered and not looked
8 at.

9 Q. I was going to ask you what you thought of Mr.
10 Scott's testimony on water saturation out here.

11 A. Oh, that's his opinion. You know, he's the one
12 that studies it, that's his job. I can't argue with him
13 and I can't disagree with him. That's his job. I'm sure
14 he's been far more exposed to that than I have been.

15 But I also know, and I also want to make this
16 point, if I may: If the oil wells didn't make water, then
17 there would be no need for disposal. You've got to bring
18 the water to get the oil, in most instances.

19 Q. So you're talking about electric drill, then
20 pumping in --

21 A. That is correct --

22 Q. -- it or a submersible pump?

23 A. -- yes.

24 Q. Have you got electricity out there?

25 A. That is correct, yes.

1 EXAMINER JONES: Gail, do you have questions?

2 MS. MacQUESTEN: No, thank you.

3 EXAMINER JONES: Any other questions for Mr.

4 Watson?

5 MR. OWEN: No questions.

6 MR. DOMENICI: No.

7 EXAMINER JONES: Okay, thank you, Mr. Watson.

8 THE WITNESS: Thank you.

9 EXAMINER JONES: No more witnesses?

10 MR. DOMENICI: I'd like to call Mr. Scott back to
11 just comment on the rebuttal.

12 MR. OWEN: Mr. Examiner, we've heard from Mr.
13 Scott twice at length. I think we need to cut it off.

14 MR. DOMENICI: Well, I would object, and I would
15 just say that prehearing statement gave no indication of
16 his testimony about that -- We got their exhibits today, we
17 didn't know that they had bought the Snyder A, didn't know
18 what their plans are, they have no written exhibits
19 related, so there's no possible way Mr. Scott could have
20 commented on this specific testimony.

21 MR. OWEN: Mr. Domenici received my exhibits this
22 morning at 8:30. Included in that was the assignment of
23 the Snyder A. He had a long time to look at that, a long
24 time for Mr. Scott to think about the Snyder A.

25 MR. DOMENICI: That's just incorrect. We had no

1 idea what they were doing with that A, that they put
2 \$60,000 on it, and they still need to prove that, there's
3 no exhibits.

4 But I think it would be very prejudicial not to
5 be able to comment on that.

6 EXAMINER JONES: Let's let him talk for a few
7 more minutes here.

8 LARRY R. SCOTT (Recalled),
9 the witness herein, having been previously duly sworn upon
10 his oath, was examined and testified as follows:

11 DIRECT TESTIMONY

12 BY MR. SCOTT:

13 THE WITNESS: I'd like to specifically address
14 the issues that were raised by Mr. Watson with regards to
15 possible recompletion in the Snyder A Number 1 to the San
16 Andres. The well that he pointed out on the map is not the
17 one that he purchased. His well is actually in Lot 17,
18 2319 from the south, 330 from the west, and it's two
19 locations south of the proposed injector.

20 EXAMINATION

21 BY MR. DOMENICI:

22 Q. Could you take Exhibit B and be sure -- and
23 circle that or highlight in some way on the map so we can
24 be sure what your testimony is? Circle that and draw a
25 clear line, if you could.

1 EXAMINER JONES: Exhibit 2, you mean?

2 THE WITNESS: Exhibit 2.

3 MR. DOMENICI: Well, or Exhibit B from the -- Did
4 you withdraw that?

5 MR. OWEN: It's the last page of Exhibit B.

6 MR. DOMENICI: Last page of Exhibit B has a
7 better map, actually. Let me make sure you have that.
8 That's it.

9 MS. MacQUESTEN: This one?

10 MR. DOMENICI: That's it there.

11 THE WITNESS: It's this one right here.

12 EXAMINER JONES: Can we get a clean copy here?

13 Q. (By Mr. Domenici) Okay, can you show -- circle
14 the exact location of the well that's shown on that
15 document?

16 A. Snyder A Number 1 is the second one down from the
17 proposed location, not the first one.

18 Q. What is the distance of that?

19 A. That's approximately 1980 feet from the proposed
20 injector.

21 Q. Okay, can you comment on the rest of his proposal
22 about --

23 A. Well, with regards to recompleting one of these
24 wells in the San Andres, he has at his -- in his possession
25 a newly drilled well that he just testified to the fact was

1 cemented up to 2800 feet, that being the Watson 1 6, and
2 the most beneficial use that he's able to make of that
3 wellbore today is as a saltwater disposal well.

4 That wellbore, clean wellbore, for the price of a
5 perforating gun, is available to him today -- has been for
6 a long time.

7 The Snyder 1 A cement top is -- well, it's a
8 5-1/2 liner with 8-5/8 at approximately the top of the San
9 Andres, with a 5-1/2 liner cement top is 6300 feet, and any
10 completion attempt in the San Andres will require
11 considerable cost and risk over and above what would be
12 available to him in the Watson 1 6.

13 The fact that oil and gas is circulated out on
14 the plug and abandonment of wells is common knowledge in
15 the oilfield and proves nothing about the commercial
16 viability.

17 We don't know where the oil came from, we don't
18 know when it accumulated, we don't know over what period of
19 time it accumulated, and it just serves no purpose to talk
20 about it because it's -- I mean, it's just a non-issue,
21 non-factor.

22 MR. OWEN: Mr. Scott, you said -- Oh, I'm sorry,
23 please pardon me.

24 Please go ahead.

25 MR. DOMENICI: I don't have any more questions of

1 this witness.

2 CROSS-EXAMINATION

3 BY MR. OWEN:

4 Q. You said that oilfields have been discovered by
5 finding oil in a wellbore when they would go in and plug,
6 right?

7 A. Oil has been discovered that way.

8 Q. But it serves no use today to talk about it?

9 A. In this instance we have multiple sets of logs
10 with multiple sets of wellbores over an interval that has
11 been thoroughly evaluated by multiple professional people.

12 Q. All those wells were drilled in the 1950s; is
13 that right?

14 Except for the Watson?

15 A. That one was drilled in very recent times. And
16 if I'm not mistaken, there's several other recent wellbores
17 in there, might be a total of five or six mid-1990s vintage
18 that were drilled as a Strawn test, West Lovington-Strawn
19 test.

20 Q. Did they test the San Andres?

21 A. No.

22 Q. Nobody's tested the San Andres, right?

23 A. No one has tested the San Andres.

24 MR. OWEN: Okay. That's all the questions I
25 have.

EXAMINATION

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BY EXAMINER JONES:

Q. The logs that you analyzed, we already talked about how modern or how old they were out here?

A. Yes.

Q. And the log on this particular well, how old was it?

A. It would have been about a 1957 vintage on the State "T" Number 2. It was an induction electrical log with a microlog.

EXAMINER JONES: Okay, well, that's all. I think we need to give Mr. Watson a chance to -- if he wants to say anything else about this too.

MR. WATSON: (Shakes head)

MR. OWEN: I don't think Mr. Watson wants to elaborate.

EXAMINER JONES: Okay, you guys want to start off with closing statements? Mr. Domenici?

MR. DOMENICI: I'll make it very short. I just think the elements that we need to prove by a preponderance of evidence, we've demonstrated with competent technical testimony as far as -- and Mr. Scott has a continuity on this, just like you do as a Hearing Examiner. But he has a continuity from the first hearing, he developed that with more specific information, particularly with the other

1 disposal wells that had substantial intervals, and also
2 shown -- there are no production wells, but there's 12
3 disposal wells in this same stratigraphy, and I think
4 overall his testimony his testimony established all three
5 requirements that we need to make to have an injection well
6 at this interval.

7 I think the questions regarding well completion,
8 it probably would have been better to have the engineers
9 here who did it, or the drillers. But I think the well is
10 well constructed, I think Mr. Scott was able to testify as
11 to what is currently there in place, and I think if
12 conditions need to be put in this order regarding any
13 inspections or reporting they can certainly handle any
14 concerns on that.

15 I think there's good testimony of concreting of
16 everything above the San Andres, and I think the rest of
17 the construction is substantiated through pressure testing
18 and other information that should be reliable. But if it
19 isn't, certainly a condition on that would be something
20 that should be able to resolve that, not a denial.

21 And as far as these other arguments of -- it's
22 basically pure speculation that there could be commercially
23 producible oil and gas reserves. And that's really the
24 only argument that we have, is pure speculation on that.
25 There's really no argument on any water concerns or waste

1 or freshwater resource. There's no competent evidence at
2 all that says this is a threat.

3 So basically all we're left with in my -- in our
4 position, is this speculation about a well that could have
5 already been developed and may never be developed, and it's
6 2000 feet away anyways. And that shouldn't be enough to
7 defeat this kind of application. If speculation is
8 allowed, then none of these kind of processes should be
9 able to go forward. Someone -- all someone has to come in
10 and say, you've done a lot of engineering work, but I have
11 anecdotal knowledge and a good feel for it and I think
12 there's producible quantities over here with no data to
13 support that and you're out of luck, sorry. And plus, by
14 the way, it would help me with my competitive business of
15 yours.

16 So I think there's plenty of safeguards for the
17 environment, for the correlative rights and for waste of
18 oil that are already built into your procedures with
19 continuing jurisdiction, and I think if there's any
20 specific concerns regarding construction, we would -- a
21 condition related to those would resolve those.

22 I think the whole concept of lack of compliance,
23 I think that is a very gray issue. I think if we read
24 carefully that original order it clearly says, if you
25 encounter something you don't -- didn't inspect, you do

1 exactly what was done here, you go to the Division person.

2 And so even some of the statements now, you know,
3 the cutoff -- the original cutoff, the May 3rd one, even
4 that is really questionable as to whether that was viable,
5 given that the original order was followed to the T with a
6 signoff by the Division Director, just as required.

7 But regardless, there's no standard to say that
8 that would allow you to do anything. I mean, if that is
9 allowed, some kind of prudent operator test, it's not in
10 the Regulations, there's no recitation to it, it's not in
11 the Statutes, the Oil and Gas Act. It allows just total
12 arbitrariness entered into this process, that someone did
13 something I didn't like, someone did something at some
14 other location, the previous operator did something, and
15 now you're out of luck when it finally comes to light.
16 That's not the way this process is set, and so I don't
17 think there's any merit at all to any of that.

18 We think on the technical merits we've prevailed
19 in this, and we would like to get a permit and go forward.

20 EXAMINER JONES: Mr. Owen?

21 MR. OWEN: Mr. Examiner, this case is about the
22 old axiom, it's easier to get forgiveness than it is
23 permission. The Applicant came in here with an application
24 two years ago to inject from 6000 to 6200 feet. Extensive
25 testimony was taken on that. The Division issued an order

1 denying that. Extensive testimony was taken on *de novo*
2 review by the Commission.

3 The Commission issued an order reinstating the
4 original administrative order, which again only authorized
5 from 6000 to 6200 feet. It required a bridge plug,
6 required a packer to be set at 5950; they set their packer
7 at 4740. Required a bridge plug to be set at 6500 feet and
8 required that cement be circulated from over 9000 feet to
9 the surface; cement was never circulated to the surface.
10 Required that the only injection zone that was authorized
11 was 6000 to 6200 feet; now they're perforated from 4810 to
12 6880, 1180 feet above the proposed zone, 680 feet below the
13 proposed zone. If they wanted to do that, they could have
14 asked you beforehand.

15 Mr. Domenici relies upon the last paragraph in
16 the administrative order issued April 30th, 2002, which
17 simply reads, The operator shall immediately notify the
18 supervisor of the Hobbs District of the Division of the
19 failure of the tubing casing or packer in said well and
20 shall take such steps as may be timely or necessary to
21 correct such failure and leakage.

22 It doesn't say that they shall take such steps to
23 increase the injection zone, it doesn't say that they shall
24 take such steps to lower the packer or raise the packer, it
25 doesn't say that they shall be given an exemption from

1 circulating cement to the surface, it doesn't say that they
2 should be allowed to put their cement plug lower than they
3 were required. All it deals with is leakage, and that's --
4 they clearly -- it's not a gray issue, as postulated by Mr.
5 Domenici; it is a black-and-white issue.

6 The order requires one thing, the operator did
7 another thing. The order on May 3rd of this year required
8 one thing, the operator did another thing. The order
9 required a third thing on June 29th of this year, the
10 operator did another thing.

11 There are four issues you need to look at in
12 deciding whether to give forgiveness rather than
13 permission. You need to look at whether waste is being
14 prevented; you need to look at whether correlative rights
15 are being protected; you need to look at, in this case,
16 whether fresh water is being protected; and you also, the
17 Division -- one of the Division's continuing duties is to
18 decide whether a particular operator is a prudent operator.

19 If you would like briefing on that following the
20 hearing, I'm sure that Mr. Domenici and I can comply with
21 that. The Division cases are rife with orders ordering
22 certain action based on the prudence or imprudence of
23 operations undertaken by a particular operator.

24 The first issue is waste. There was a lot of
25 testimony about the San Andres. There was a lot of

1 testimony about the San Andres in the earlier hearings.
2 However, the testimony in those hearings was directed at
3 6000 to 6200 feet. Now we're talking bout 4880 feet and
4 below.

5 Mr. Scott got up and said that we should just
6 ignore the oil in the wellbore on the State "T" Number 4.
7 We don't know when it got there, we don't know how long it
8 was there, we don't know where it came from. Mr. Watson
9 got up and told you you shouldn't ignore it, that he is
10 considering it and spending a considerable sum of money in
11 pursuing that evidence in order to potentially recomplete a
12 well in that zone.

13 If this injection is authorized from 4880 down to
14 below 6800, we're talking about wasting reserves. Mr.
15 Watson did not testify, and I am not advancing the position
16 that Mr. Watson's wells are going to be washed out. The
17 Commission previously ruled on that issue and ruled that it
18 was an issue of trespass. If that happens, we will pursue
19 the Gandys -- or the Gandy Corporation, pardon me -- in a
20 court of law for trespassing.

21 However, it is in your jurisdiction to decide
22 whether or not reserves are going to be wasted. Mr. Watson
23 got up here and told you that the first day there was 50
24 barrels of oil, the second day there was 30 barrels of oil.
25 We're not talking about a quantity of oil that's been

1 accumulating for years and years and suddenly washed out in
2 one day. They washed out 30 barrels on the second day,
3 after they had already washed out 50 barrels. There are
4 reserves in the San Andres. Those reserves should be
5 protected from waste in this case. Whether it's around Mr.
6 Watson's wellbores or whether it's around the injection
7 well at issue in this case, it is the Division's statutory
8 duty to prevent waste.

9 In addition, Mr. Scott said that there is no
10 commercial production, there's no possibility of commercial
11 production from the San Andres zone. Commercial production
12 is a relative term. There's no commercial production in
13 the Permian Basin in New Mexico for the majors anymore. BP
14 has left, MobilExxon has left, everybody has -- all the
15 majors have left. All we have left are a bunch of large
16 independents and small independents. Mr. Watson is one of
17 the latter. What is commercial for BP, what is commercial
18 for Energen is a different thing than what is commercial
19 for Mr. Watson. The reserves in the San Andres, as they
20 sit, are commercial to Mr. Watson, and they are commercial
21 to others similarly situated. To enter an order
22 authorizing injection into that interval would be
23 authorizing waste.

24 Second issue is correlative rights. Mr. Scott's
25 assumptions of sweep are based upon an assumption of an

1 average of 1500 barrels a day. Mr. Gandy got up here and
2 told you that they're injecting between 1500 and 2000 a
3 day. The average is significantly higher, that testified
4 to by Mr. Scott, and his assumptions -- the assumptions
5 underlying his opinions, should be discounted. Therefore,
6 his opinions should be discounted. We don't know how far
7 this water that is injected is going to sweep, and it may
8 well sweep into Mr. Watson's wellbores.

9 Furthermore, there is no cement from
10 approximately -- it's approximately 8000 feet, I believe,
11 to approximately 4000 feet, there's no cement at all.
12 There's nothing to prevent cross-zone migration of the
13 fluids, there's nothing to prevent the cross-zone migration
14 of the fluids from the injected zone down into the one zone
15 that Mr. Scott testified is productive, which is the
16 Wolfcamp.

17 It is the Division's statutory duty to prevent --
18 or, I'm sorry, to protect correlative rights. Correlative
19 rights in this case would be compromised by entry of an
20 order which expanded the authority by over 2000 feet.

21 Mr. Domenici says that all of the testimony
22 dealing with oil from the San Andres is speculation, pure
23 speculation, and you can't base an opinion on pure
24 speculation. I agree with you, you can't base an opinion
25 on pure speculation. You can base an opinion, you can base

1 a decision, on what Mr. Watson saw with his own eyes, which
2 is 50 barrels one day, 30 barrels the next day. There's
3 oil in that zone, that zone should not be washed out.

4 The third issue is the protection of fresh water.
5 The same issues, or the same factors leading to the
6 conclusion that correlative rights will not be protected,
7 lead to the conclusion that the fresh water is not being
8 adequately protected in this case. There is no cement for
9 about 2000 feet in this wellbore, throughout the injection
10 interval. We do know that a well approximately 2000 feet
11 away, when the casing was pulled, the casing looked like
12 Swiss cheese, in Mr. Watson's words. I don't know whether
13 that's the case down that hole or not, but what we do know
14 is that we don't know where that water is going. Nobody
15 got up here and told you where that water is going. It
16 could be going uphole, it could be going downhole, it could
17 be going into the fresh water.

18 And finally, Mr. Examiner, the issue of a prudent
19 operator addressed at the outset of this closing. This
20 operator came in and asked you -- asked the Division, for
21 permission for 6000 to 6200 feet. Upon being called on the
22 fact that it failed to notify Mr. Watson, he came in and
23 presented their testimony and were denied their application
24 by Mr. Catanach.

25 Following the Commission review, the original

1 order authorizing only 6000 to 6200 feet was reinstated.
2 That order also included a bunch of other provisions,
3 specific provisions, including the location of the bridge
4 plug, including the location of the packer, including the
5 requirement to circulate cement. None of that was complied
6 with by this operator. This operator has failed to meet
7 its obligations and is now seeking forgiveness rather than
8 permission.

9 I request that you deny the Application in this
10 case.

11 In case you decide that injection is appropriate,
12 I request that you significantly lower the zones requested
13 by the Applicant. The Applicant, in fact, got up and
14 stated that there was a very good zone below the 6200 feet
15 and within the lower intervals sought in this Application.
16 However, I request at all costs that the reserves that are
17 present in the San Andres be protected and the Application
18 be denied.

19 Thank you.

20 EXAMINER JONES: Okay, thank you, and is there
21 anything further?

22 MR. DOMENICI: Nothing further.

23 EXAMINER JONES: Okay, we're going to take Case
24 13,293 under advisement. Thank you all for coming.

25 MR. OWEN: Mr. Examiner, you stated that we would

1 know something tomorrow. I assume that there will be some
 2 sort of written documentation in advance of a formal order
 3 or something like that. I request that it be faxed to both
 4 parties.

5 EXAMINER JONES: We can do that.

6 MR. OWEN: Thank you.

7 EXAMINER JONES: Okay, with that, let's adjourn
 8 this Division Hearing.

9 (Off the record)

10 EXAMINER JONES: Okay, let's go back on the
 11 record, and Mr. Owen?

12 MR. OWEN: I move the admission of DKD's Exhibits
 13 B, C, D, G, I, J, K, L and M. However, I do not move the
 14 admission of Exhibit F, which was included in the packet
 15 provided to the Division and to the witnesses.

16 EXAMINER JONES: Any objection?

17 MR. DOMENICI: No objection. I would just
 18 propose Exhibit F get taken out.

19 MR. OWEN: That's fine with me.

20 EXAMINER JONES: Okay, let's admit DKD Exhibits
 21 B, C, D, G, I, J, K, L and M, but not Exhibit F.

22 With that, let's go off the record.

23 (Thereupon, these proceedings were concluded at
 24 5:18 p.m.)

25

* * *

I do hereby certify that the foregoing is
 a complete record of the proceedings in
 the Examiner hearing of Case No.
 heard by me on

STEVEN T. BRENNER, CCR
 (505) 989-9300

Conservation Division

Examiner

CERTIFICATE OF REPORTER

STATE OF NEW MEXICO)
) ss.
 COUNTY OF SANTA FE)

I, Steven T. Brenner, Certified Court Reporter and Notary Public, HEREBY CERTIFY that the foregoing transcript of proceedings before the Oil Conservation Division was reported by me; that I transcribed my notes; and that the foregoing is a true and accurate record of the proceedings.

I FURTHER CERTIFY that I am not a relative or employee of any of the parties or attorneys involved in this matter and that I have no personal interest in the final disposition of this matter.

WITNESS MY HAND AND SEAL July 15th, 2004.



STEVEN T. BRENNER
 CCR No. 7

My commission expires: October 16th, 2006