

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

4 IN THE MATTER OF THE HEARING CALLED
5 BY THE OIL CONSERVATION DIVISION FOR
6 THE PURPOSE OF CONSIDERING:

ORIGINAL

6 STAR OIL AND GAS COMPANY FOR Case No. 14874
7 AUTHORIZATION TO INJECT, LEA COUNTY,
8 NEW MEXICO

8 TRANSCRIPT OF PROCEEDINGS

9 EXAMINER HEARING

10 BEFORE: RICHARD EZEANYIM, Technical Examiner
11 DAVID K. BROOKS, Legal Examiner

12 June 25, 2012

13 Santa Fe, New Mexico

14 This matter came on for hearing before the New
15 Mexico Oil Conservation Division, RICHARD EZEANYIM,
16 Technical Examiner, and DAVID K. BROOKS, Legal
17 Examiner, on Monday, June 25, 2012, at the New
18 Mexico Energy, Minerals, and Natural Resources
19 Department, 1220 South St. Francis Drive, Room 102,
20 Santa Fe, New Mexico.

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23 REPORTED BY: PAUL BACA, CCR #112
24 PAUL BACA COURT REPORTERS
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1 A P P E A R A N C E S

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7 I N D E X

8 WITNESS: PAGE:

9 MOHAMMED YAMIN MERCHANT

10 Examination by Mr. Hall 3

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14 EXHIBIT: DESCRIPTION

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1 CHAIRMAN BROOKS: Back on the record.

2 At this time we'll call Case Number 14874,
3 application of Star Oil and Gas Company for
4 authorization to inject, Lea County, New Mexico.

5 I call for appearances, please.

6 MR. HALL: Mr. Examiner, Scott Hall,
7 Montgomery & Andrews Law Firm, Santa Fe, appearing
8 on behalf of the applicant Star Oil and Gas, with
9 one witness today.

10 (Witness sworn.)

11 MOHAMMED YAMIN MERCHANT,
12 after having been first duly sworn under oath,
13 was questioned and testified as follows:

14 EXAMINATION

15 BY MR. HALL:

16 Q. For the record, state your name.

17 A. Mohammed Yamin Merchant.

18 Q. Mr. Merchant, where do you live and by
19 whom are you employed?

20 A. Hobbs, New Mexico. I'm employed by Penroc
21 Oil Corporation, in Hobbs.

22 Q. In what capacity for Penroc?

23 A. I'm president of Penroc.

24 Q. What is your relationship to Star Oil and
25 Gas?

1 A. First, we are family friends. Second, I'm
2 working on his behalf to get this disposal
3 application through the process.

4 Q. You're authorized to testify on behalf of
5 Star?

6 A. I'm authorized to testify for Star and
7 have a letter to that effect with me.

8 Q. Okay. You've previously testified before
9 the division, but I think it's been some time. If
10 you would, review your educational background and
11 work experience for the Examiner.

12 A. Yes. I testified when I had hair, so that
13 was many moons ago.

14 I got a degree in chemical engineering
15 from the School of Mines in South Dakota. I worked
16 with Getty Oil for five years.

17 Since 1980, I've been independent, have
18 built and sold several companies, operated as many
19 as 450 wells in Lea and Eddy County and Andrews and
20 Ector County, Texas.

21 MR. HALL: All right. At this point,
22 Mr. Examiner, we would offer Mr. Merchant as
23 qualified to express opinion testimony as an expert
24 engineer/oilfield engineer.

25 CHAIRMAN BROOKS: So qualified.

1 Q. (By Mr. Hall) Mr. Merchant, you're
2 familiar with the application that's been filed in
3 this case?

4 A. Yes, sir, I am.

5 Q. And the lands that are the subject of the
6 application?

7 A. Yes, sir, I am.

8 Q. Would you explain to the Examiner what
9 Star is seeking by this application?

10 A. What Star is trying to do is take this
11 well, New Mexico State A Number 1, located in
12 Section 25, 16/33, Lea County, New Mexico, and
13 convert that well to saltwater disposal.

14 The well currently is submarginal, barely
15 makes 3 MCF a day. And if -- if we don't convert to
16 disposal, we're going to end up -- they're going to
17 end up plugging it. And that's -- that's what we're
18 seeking, is a saltwater disposal approval.

19 Q. All right. Did Star first make
20 application for administrative approval of the well?

21 A. Yes, we did.

22 Q. And are we appearing here today at the
23 request of the division to put this case on the
24 record?

25 A. As far as I know, that is correct.

1 Q. Let's look at what we've marked as
2 Exhibit 1.

3 Is this a copy of the C-108 application
4 that is filed on behalf of Star?

5 CHIEF ENGINEER EZEANYIM: Yes. Mr. Hall,
6 let me -- I'm sorry about that.

7 Why are we here today?

8 MR. HALL: We were directed to come to
9 hearing by Mr. Jones. There was no objection from
10 any other operator or interest owner, but simply at
11 the direction of Mr. Jones.

12 CHIEF ENGINEER EZEANYIM: Okay. And maybe
13 the testimony will reveal why he did that, right?

14 MR. HALL: It may. There is -- the
15 application is for injection to the Wolfcamp
16 formation.

17 CHIEF ENGINEER EZEANYIM: Okay.

18 MR. HALL: And there is -- Wolfcamp
19 production is largely depleted, but Mr. Merchant
20 will explain.

21 CHIEF ENGINEER EZEANYIM: Okay. I see the
22 reason why now. Okay. Go ahead.

23 Q. (By Mr. Hall) Let's look at Exhibit 1.

24 Did you assist in the preparation of the
25 C-108 application?

1 A. Yes, sir, I did.

2 Q. Okay. Why don't you explain how this
3 interval of the Wolfcamp formation was selected for
4 injection.

5 A. Two reasons -- maybe three.

6 The first one is the well is depleted.
7 It's going to be plugged. It's going to be a loss
8 to the operator, to the state, to the taxpayers of
9 New Mexico.

10 Second, there's already a disposal well
11 that exists. We are located in unit letter K of
12 Section 25. There's a disposal well in unit letter
13 O in the same formation.

14 And third, sometime in the life of
15 injecting fluid in the subject well -- I mean, we've
16 pulled out almost 7 to 8 million barrels of BOE, all
17 water plus -- plus gas. And some day it might help
18 the offsetting wells. I don't know how long it will
19 take to -- it might take ten years at the current
20 projected rate of disposal. It might help the
21 offsetting production, but I can't sit here and tell
22 you when.

23 So there are three -- three reasons.

24 Q. Is there an increasing demand for disposal
25 well facilities in this area?

1 A. The well located in Section 25, in unit
2 letter O, is a disposal well operated by another
3 water hauling company based out of Maljamar,
4 New Mexico, outside of Lovington, and that is
5 strictly for their own trucks.

6 There are other disposals in Loco Hills,
7 north of Lovington. At the current rate of activity
8 in the oilfield, the trucks -- there's not enough
9 places to go with the water.

10 As late as Saturday I was talking to one
11 of the companies in Lovington that said their trucks
12 have to wait three, four, five, six hours in line to
13 dispose of water which, in turn, costs money to the
14 operators. Of course as a service contractor they
15 bill it out, so there's a big need for it at the
16 moment.

17 Q. Let's talk about the specific well. If we
18 turn to Exhibit 1 and look under Tab A, two pages
19 under Tab A, are these well bore schematics for the
20 well you want to convert?

21 A. That is correct. It's New Mexico A Number
22 1. That is the well.

23 Q. All right. Why don't you discuss for the
24 Examiner the casing and submitting program that you
25 see and where you have located perforations.

1 A. The well was drilled by Phillips
2 Petroleum. As we can see from the sketch, the
3 surface casing is cemented to surface, the
4 intermediate is cemented to surface in 9 and 5/8
5 casing. The 5 and a half is -- cement is brought up
6 inside the 9 and 5/8, 5 and a half annulus.

7 The perforations, of course, are almost
8 two miles away, two miles down, from 10720 to 10808
9 in the Wolfcamp, which is the same zone where the
10 offset operator is disposing water at the moment.

11 Q. All right. Are you planning to add new
12 perforations?

13 A. We're not planning to add anything to it.

14 Q. So the second page under Tab A, what does
15 that show us?

16 A. It shows that if the approval is granted
17 for a saltwater disposal well, of course the well
18 configuration would stay the same except we'll have
19 7/8 internally plastic-coated tubing, which is ready
20 to go, by the way, at the moment. We'll be
21 disposing under a nickel-coated packer set at least
22 100 feet above the perms and disposing Wolfcamp
23 perms from 720 to 10808.

24 Q. Will you be injecting under pressure?

25 A. Based on the depleted nature of the

1 reservoir we don't expect any pressure initially.
2 Based on the well located in unit letter O belonging
3 to the offset operator, it's on a vacuum for the
4 last five years, so we do not expect any pressure
5 initially. But over the course of time it's
6 possible, yes.

7 Q. All right. Do you expect that the well
8 will be equipped with a back-pressure valve?

9 A. Yeah. We do that as a practice to all of
10 our injection-disposal wells, to have Murphy
11 switches where they won't get anywhere close to the
12 maximum pressure allowed.

13 Q. Tell us about the average maximum
14 injection rates you expect to see.

15 A. It all depends on the market. The well
16 probably will take 1,300 barrels -- that's 10 loads
17 a day, 10 truckloads. So it's -- 10 times 130 is
18 1,300 barrels a day.

19 If you put 20 loads in it, that will be
20 2,600 barrels a day. It all depends what's
21 available from the various operators from Maljamar
22 to Buckeye to Lovington.

23 Q. And what injection pressures are you
24 asking for?

25 A. We are asking for the maximum allowed of

1 2200 PSIG. Once again, based on the offset well we
2 didn't expect any pressure initially.

3 Q. Okay. And this will be an open commercial
4 system?

5 A. It will -- it will be open to the public,
6 yes.

7 Q. Can you discuss for the Hearing Examiner
8 the chemical analysis for the injection fluids?

9 A. The injection fluids will be from the
10 San Andres, from the Grayburg, from the Wolfcamp,
11 from the Abo. There's a Yeso play going on around
12 Maljamar and Loco Hills. There's a lot of water
13 coming from there.

14 A lot of the water will be flowback water
15 from the frack fluids, so -- and it's all compatible
16 with what goes in this formation.

17 Q. Is the water analysis found under Tab D of
18 Exhibit 1?

19 A. The water analysis, that is the -- that's
20 D, right?

21 Q. D as in delta.

22 A. Right. That's the water analysis from the
23 Wolfcamp zone showing the chlorides, sulfates,
24 whatnot.

25 Q. Let's talk about the Wolfcamp formation.

1 Did you obtain a report from a geologist
2 for this presentation today?

3 A. Yeah. Our geologist is a consulting
4 geologist based out of Midland, Texas, 84 years
5 young. He's worked in Southeast New Mexico
6 practically all his life. And there is a little
7 writeup from him, if I may jump to that.

8 Q. Yes. That's Exhibit Number 2.

9 What's the geologist's name?

10 A. Glen Love.

11 Q. Okay. Would you explain his conclusions?

12 A. Glen's conclusion is that this is a
13 carbonated reservoir. It's depleted. And based on
14 the offset production and the production from this
15 well -- the well is noncommercial. Of course it is
16 noncommercial based on dollars and cents. We've
17 tried to produce it and make 3 MCF a day, which is
18 not going to make anybody anything.

19 And if the water is disposed in this
20 reservoir, based on the well configuration, based on
21 the offset disposal well, it will not affect any of
22 the offset producers.

23 Long term it may, for the better -- it may
24 take 7 to 8 million barrels of water to fill up the
25 reservoir before you see any -- any effect to the

1 oil production.

2 Q. What were Mr. Love's observations with
3 respect to the permeability and porosity throughout
4 the area?

5 A. It's -- it's not consistent. It varies
6 from one well to the other. It's not continuous.
7 Some wells, if you -- there's a cross-section he
8 prepared. If you look at it, some wells only
9 perforate 5 feet, some wells they perforate 35 feet.
10 So it's not a continuous zone all the way across.

11 Q. All right. We haven't provided the
12 cross-section yet. Why don't we distribute that to
13 the Hearing Examiner and explain that, please.

14 MR. HALL: Mr. Examiner, we haven't marked
15 that, but we'll refer to it as Exhibit Number 3.

16 Q. (By Mr. Hall) Tell us what we're
17 observing on the cross-section here, in the context
18 of Mr. Love's report.

19 A. It's shown -- showing the top of the
20 Wolfcamp to the base of the Wolfcamp. It also shows
21 the cumes of oil, gas, and water. It also shows the
22 data, which year the wells were drilled, where the
23 casings were set.

24 And it also -- on the bottom of the paper
25 it shows the cumes on oil, gas, and water on all the

1 wells within the half-mile radius.

2 Q. Okay. Did Mr. Love also prepare a
3 structure map in conjunction with this?

4 A. He did not prepare it himself. The
5 structure map came off of the Roswell Geological
6 Society Handbook from -- that's where it came from.

7 Q. Okay. Does this demonstrate the
8 horizontal extent of the injection?

9 A. As the structure map shows -- I can't find
10 it in mine.

11 Q. It's attached to Exhibit 2, his report,
12 the last page of that.

13 A. The structure map shows that we are --
14 we're basically on the extreme west/southwest end of
15 the field. So it's like -- once again, it's at the
16 lower part of the structure. That's where it would
17 be disposing in, offsetting the current disposal
18 well, which is in unit letter O.

19 Q. You pointed out the cume production data
20 shown on the cross-section. What does this tell us
21 about the future productivity for the Wolfcamp area
22 right here?

23 A. Well, future -- as it stands today, if you
24 talk about the future, if you keep producing the way
25 these wells are being produced, the offsetting wells

1 are averaging 3, 4, 5 MCF a day, just casinghead
2 gas.

3 If you say future, if some day 20 years
4 down the road, if these wells -- the water we inject
5 makes an effect to the offsetting wells, fill up the
6 reservoir 7 to 10 million barrels of fluid, it might
7 help some of the offsetting wells. But it depends
8 on how we define the future.

9 CHIEF ENGINEER EZEANYIM: All right. How
10 much oil do you produce now?

11 THE WITNESS: I'm sorry?

12 CHIEF ENGINEER EZEANYIM: How much oil has
13 been produced? You said 3 to 5 MCF. How much oil
14 has been produced?

15 THE WITNESS: How much oil has been
16 produced from all the wells?

17 CHIEF ENGINEER EZEANYIM: Yes.

18 THE WITNESS: Roughly about 5 million
19 barrels.

20 CHIEF ENGINEER EZEANYIM: I mean not --
21 not -- I'm not talking about the cume. Currently,
22 the production that's going on now, how much?

23 THE WITNESS: Currently from the subject
24 well?

25 CHIEF ENGINEER EZEANYIM: No, not on the

1 subject well, from the wells in the area.

2 THE WITNESS: From the wells in the area
3 it's about 55 barrels a day.

4 CHIEF ENGINEER EZEANYIM: 55 barrels a
5 day?

6 THE WITNESS: MGM Operating is the
7 operator of all the wells to the west -- to the
8 east, to the north, to the northeast, and they
9 average about 55 barrels a day.

10 CHIEF ENGINEER EZEANYIM: That's within
11 about a half mile in your review, right?

12 THE WITNESS: No, that's even going
13 further.

14 CHIEF ENGINEER EZEANYIM: What is the
15 cutoff going back?

16 THE WITNESS: Going back better than two
17 miles -- two miles or so. Within a half-mile radius
18 the current production -- the oil production is,
19 like, 3 to 4 barrels a day.

20 CHIEF ENGINEER EZEANYIM: Okay. Let's
21 take two miles. How much do you think it is?

22 THE WITNESS: MGM -- I can only tell you
23 MGM is producing 55 barrels a day.

24 CHIEF ENGINEER EZEANYIM: And that's
25 within the two-mile area, right?

1 THE WITNESS: Yes.

2 CHIEF ENGINEER EZEANYIM: Okay. Good.
3 How many wells are we talking about in
4 that?

5 THE WITNESS: About 23 -- 22, 23 wells.

6 CHIEF ENGINEER EZEANYIM: But this is
7 going to the half-mile area and produces about 5
8 barrels day, all the wells?

9 THE WITNESS: I don't believe they're even
10 making 5 barrels a day, because none of them are
11 producing oil. They're all strictly producing a
12 little gas off the casing.

13 CHIEF ENGINEER EZEANYIM: I just wanted to
14 under- -- while you're here, your cume is gas in
15 MCF?

16 THE WITNESS: It's got -- barrels of oil
17 on the top.

18 CHIEF ENGINEER EZEANYIM: Yeah, I know
19 that.

20 THE WITNESS: Right.

21 CHIEF ENGINEER EZEANYIM: Gas, is that in
22 MCF?

23 THE WITNESS: Gas is in MCF, yes.

24 CHIEF ENGINEER EZEANYIM: Okay. I like
25 units. I like to make units so I know what I'm

1 talking about.

2 THE WITNESS: It is MCF.

3 CHIEF ENGINEER EZEANYIM: All right.

4 Thank you.

5 Q. (By Mr. Hall) If you'll look at your
6 cross-section you will see that --

7 I'm sorry. Were you finished?

8 A. Since he asked me about question on the
9 average production, I was going to pull that
10 production curve on the New Mexico A.

11 CHIEF ENGINEER EZEANYIM: Yes, please do.

12 THE WITNESS: The one in green is the oil
13 production. As you can see, it's here. It's 100
14 barrels of oil per month. So for the last 13 years
15 this is averaging -- it was averaging 3 barrels a
16 day, and then it went to nothing.

17 And then it -- brought it back on, he was
18 doing 2 to 3 barrels a day, and now it's back to
19 nothing. So all it's doing is right here, like 3 or
20 4 MCF a day.

21 CHIEF ENGINEER EZEANYIM: And this is
22 within the two-mile, three-mile area?

23 THE WITNESS: This is the subject well.

24 CHIEF ENGINEER EZEANYIM: Oh, Okay.

25 THE WITNESS: The wells within a half a

1 mile radius are -- basically, you will see the same
2 trait.

3 CHAIRMAN BROOKS: How many wells are
4 within that that are producing?

5 THE WITNESS: You're probably talking
6 about five.

7 CHIEF ENGINEER EZEANYIM: We'll go to that
8 area of review, anyway. Is that part of the
9 exhibits?

10 THE WITNESS: I can get you a copy of
11 that. It's not a problem.

12 MR. HALL: Mr. Examiner, if you'll look at
13 the second page of Exhibit 2 it has the half-mile
14 and two-mile areas of review on there with the wells
15 located in there.

16 THE WITNESS: That's Exhibit B.

17 MR. HALL: It's Exhibit 2.

18 CHIEF ENGINEER EZEANYIM: Is that B or B2,
19 with your letter behind it?

20 THE WITNESS: Yeah. That is the exhibit
21 you're looking at, Examiner.

22 And if you'll notice, the well number --
23 the well immediately east of the subject well, it's
24 plugged. It's plugged and abandoned. The well
25 further east of it is plugged and abandoned. That's

1 in --

2 CHIEF ENGINEER EZEANYIM: Do you have
3 those in a form -- of the area within a half a mile
4 the wells and the studies? Do you have that?

5 MR. HALL: They are -- if you'll look
6 under Tab C.

7 CHIEF ENGINEER EZEANYIM: Okay. Are these
8 review wells?

9 THE WITNESS: Yes.

10 CHIEF ENGINEER EZEANYIM: Okay.

11 THE WITNESS: There are five wells in the
12 half-mile area for review.

13 CHIEF ENGINEER EZEANYIM: Those five that
14 you highlighted, right?

15 THE WITNESS: Yes.

16 CHIEF ENGINEER EZEANYIM: The rest are
17 outside the area of this?

18 THE WITNESS: I'm sorry?

19 CHIEF ENGINEER EZEANYIM: The rest are
20 within two miles. The rest are -- for Number 6 to
21 Number 17 are within the two-mile area of review?

22 THE WITNESS: Yeah. 17 wells in the
23 two-mile --

24 CHAIRMAN BROOKS: It's within a one-mile
25 area of review.

1 CHIEF ENGINEER EZEANYIM: It's one mile.

2 Okay.

3 THE WITNESS: Three of the five wells in
4 the area of review in the half-mile radius are
5 plugged.

6 CHAIRMAN BROOKS: So that leaves two that
7 are producing?

8 THE WITNESS: That leaves two that are
9 producing, but marginally.

10 CHIEF ENGINEER EZEANYIM: But I see active
11 three -- about two, three, four, active. Are there
12 any that have been plugged out of those three?

13 If you'll look at one, two, three, four,
14 five, Number 1 is plugged and Number 5 is plugged.
15 The rest is active.

16 THE WITNESS: I'm not sure --

17 CHIEF ENGINEER EZEANYIM: I mean, if you
18 look at that table for me there, if you'll look at
19 Wells Number 1 through 5.

20 THE WITNESS: Right.

21 CHIEF ENGINEER EZEANYIM: All right.
22 Number 1 is plugged, right. Peemie (phonetic) is
23 plugged, right?

24 THE WITNESS: Peemie is producing, yes.

25 CHIEF ENGINEER EZEANYIM: Oh, Peemie is

1 producing.

2 THE WITNESS: Number 1 is the well which
3 we are here for.

4 CHAIRMAN BROOKS: Okay. And 2 is
5 abandoned?

6 THE WITNESS: Yeah. Number 2 is
7 abandoned, Number 3 is abandoned, Number 4 is
8 abandoned.

9 CHIEF ENGINEER EZEANYIM: Okay.

10 CHAIRMAN BROOKS: Okay.

11 Q. (By Mr. Hall) How long have these wells
12 been producing?

13 A. Since the late '50s.

14 Q. And with the cume volumes that have been
15 produced, what effect does that have on oil/water
16 contact?

17 A. Well, normally, in most -- in all cases,
18 most cases, the oil/water contact should go up. But
19 the kind production we've had over the last 50, 60
20 years, an increase. Water contact has gone up.

21 Q. All right. And is it your opinion that
22 further injection will have a beneficial effect on
23 the remaining Wolfcamp production in the area?

24 A. As I said earlier, there's been -- 6 to
25 7 million barrels of oil have been recovered from

1 these wells. And based on the injection volumes we
2 are talking about it might take ten years to put
3 that much volume back in the reservoir, and some day
4 it might affect it for the better.

5 CHIEF ENGINEER EZEANYIM: Why don't we
6 throw out that information, because that's really
7 the crux of this matter.

8 Have we tried any secondary recovery
9 processes in this area?

10 THE WITNESS: I'm sorry?

11 CHIEF ENGINEER EZEANYIM: Secondary
12 recovery, have we tried them? Have we designed
13 secondary recovery? Have we tried it in this area?

14 THE WITNESS: Nobody has tried it, to my
15 knowledge. The current operator has -- doesn't have
16 any plans. I talked to him on the phone, and I went
17 down personally and talked to him in Midland, and he
18 said, "We don't have any plans whatsoever to do
19 anything."

20 CHIEF ENGINEER EZEANYIM: Well, they think
21 they don't have any plans to produce anything,
22 right? Is that what they said?

23 THE WITNESS: Yeah. He didn't say why.
24 It's just -- you know, it's 11,000 feet deep. And
25 to activate mopping and to activate a secondary

1 recovery and find that kind of water to go back in
2 the ground, I think it's going to be a monumental
3 task if it ever happens.

4 This could be a good pilot. I may be dead
5 by that time, but it may be a good pilot for
6 protecting 1,300 barrels of water a day in the
7 ground or 3,000 barrels a day, and ten years down
8 the road we might see some results.

9 CHIEF ENGINEER EZEANYIM: You are making a
10 good point there. Okay. Go ahead.

11 THE WITNESS: They all are state -- they
12 all are state leases, so it does benefit somebody.

13 Q. (By Mr. Hall) Mr. Merchant, is there any
14 non-Wolfcamp production within the area of review
15 above the Wolfcamp formation?

16 A. Within the half a mile or...

17 Q. Yes.

18 A. Within half a mile there's no shallow
19 production. Within the half a mile the deeper is a
20 Morrow. At 12,000 feet it shows up on this exhibit
21 that -- this map we had a little while ago.

22 It's in unit letter H, in Section 25.
23 Where you see those two dots, one is a Wolfcamp
24 well -- or was. It's plugged.

25 And the other one is a Morrow well. It's

1 made a little over a BCF of gas. It's produced at
2 about 100 MCF a day now on a low-pressure pipeline.

3 Q. All right. And we have identified the
4 wells within the area of review under Tab C.

5 Under that first page, is that a
6 compilation of all of the well bore schematics for
7 all of those wells within the AOR?

8 A. Yes, sir, it is.

9 Q. And by referring back to the first page,
10 can we see which wells actually penetrate the
11 Wolfcamp?

12 A. They all have.

13 Q. And is there any deeper production in the
14 Wolfcamp, the AOR?

15 A. As I mentioned just a few minutes ago,
16 right on the edge of the half a mile area of review
17 in unit letter H is the Morrow well of Cimarex
18 today. Once again I'm repeating, but it made a
19 little over a BCF of gas, makes it an MCF a day.

20 Q. All right. When you reviewed the well
21 bore schematics and the information that you had
22 available to you on the wells within the AOR, were
23 they -- were the data sufficient to allow you to
24 determine the condition of the casing and the --
25 accurately calculate the Smith tops?

1 A. That data came from the OCD files by
2 website. And if that wasn't the case, I wouldn't be
3 sitting here today.

4 Q. All right. Did you see any evidence of
5 any casing lengths at all?

6 A. I have been operating that area since
7 1980, and we've never had any casing issues. I
8 talked to Greg Mousey (phonetic), who operates the
9 unit, and he has never had any casing problems.

10 Q. Okay. And is this the Kemnitz Wolfcamp
11 unit?

12 A. It is the Kemnitz Wolfcamp unit, yes.

13 Q. All right. Are you satisfied that the
14 conditions of the wells within the AOR are such that
15 none of them will act as a conduit for fluids from
16 the injection interval to fresh water aquifers?

17 A. I'm absolutely sure, because the rest is
18 up to God. But I'm sure there won't be any issues
19 if we're allowed to dispose in there.

20 Q. Would you identify all the freshwater
21 aquifers within the AOR?

22 A. There are -- there were several wells
23 drilled back in the '50s by the various operators
24 that would drill these wells as supply wells.

25 To my knowledge, they all have been

1 plugged. There may be one -- one well which is used
2 for supply of stock water. And the fresh water over
3 there is between 150 to 200 feet deep.

4 Q. All right. Let's look at Tab D.

5 We have covered that. Did you opine
6 that -- whether there are any compatibility issues
7 with the disposal fluids and Wolfcamp formation
8 water?

9 A. You know, I was involved in the offsetting
10 disposal well in unit letter O operated by Ken Moore
11 from Maljamar. And his wells do not have any issue
12 with all the truck water coming in from different
13 formations.

14 So based on that we will be doing the same
15 thing. So if he don't have an issue, we should not
16 have an issue.

17 Q. All right. Let's look at Tab F.

18 What are the materials under Tab F?

19 A. Legal notice, is that what you have, Tab
20 F, legal notice?

21 Q. Yes.

22 A. That was the ad we put in the paper in the
23 Hobbs News-Sun, as a general practice of the
24 regulation, to -- that we're going to do this
25 disposal well.

1 Q. Does Tab F also include a list of all the
2 parties you notified of this application?

3 A. Yes, it does. It includes the State of
4 New Mexico, the offset operators, which in this case
5 is Ken Moore and Magnum Hunter, which is Cimarex,
6 now. So they were all notified.

7 Q. Did you receive any objections to the
8 application?

9 A. There are no objections.

10 Q. Let's look at the last exhibit, Exhibit 4.
11 Tell us what that is, the very last.

12 A. The letter from the MGM?

13 Q. Yes.

14 A. Yeah. We talked to Greg, Mr. Mousey, on
15 the phone more than once, and then went to see him
16 in Midland. And he sent this letter out by e-mail.
17 And as he told me personally, he said, "If I had a
18 problem I would have objected to it the first time
19 when you asked for administrative approval. There
20 are no objections."

21 And he realizes the fact that some day it
22 might help the offset wells.

23 Q. All right. Mr. Merchant, in your opinion,
24 can this project be operated so that the injected
25 fluids remain within the injection interval?

1 A. Well, based on the construction of the
2 subject well, based on all the offset wells, proper
3 casing, proper cementing, I firmly believe that
4 there will not be a -- to the negative effect.

5 Q. All right. And can the project be
6 operated so that there will be no threat posed to
7 correlative rights or the waste of hydrocarbon
8 resources?

9 A. To the contrary. I think it will help,
10 since we are -- we have such a shortage of water
11 disposal facilities, that it will help everybody in
12 the area: Less trucking time, more places to go
13 with the water. And it would not affect any of the
14 shallow zones or deeper zones. It won't affect the
15 surface owner, so it's all good.

16 Q. Would it have a beneficial effect in terms
17 of revenues realized by the State of New Mexico?

18 A. Yes, substantially. At least to the tune
19 of \$100,000 a year. If this project is granted by
20 the State we have a \$10,000 fee paid every year to
21 the State of New Mexico, and a 10-cent-a- disposal
22 fee. And based on a minimum of, say, 13- to
23 1,500 barrels a day disposed, 10 cents a barrel
24 times -- plus the 10,000, we're looking at between
25 75- to \$100,000 a year income to the State of

1 New Mexico which we don't have today. If the well
2 is plugged, then, that 100,000 is gone.

3 Q. So do you have an opinion whether or not
4 the project can be operated so that public health
5 and safety can be protected?

6 A. I have been in operation since 1977,
7 starting with Getty. And from that day until today
8 and going forward, we operate everything -- class A
9 operation. It's all Cadillac. We've got two other
10 systems similar to this one in Eddy County, and
11 they're class A operations. So it should not and
12 will not affect nobody else to the harmful way.

13 Q. All right. Mr. Merchant, were Exhibits 1
14 through 4 prepared by you or at your direction?

15 A. They were prepared mostly under my
16 directions, yes.

17 Q. All right.

18 MR. HALL: And at this point,
19 Mr. Examiner, we'd move the admission of Exhibits 1
20 through 4.

21 If you'd like, we'll supplement the record
22 with that production curve, and we'll refer to that
23 as Exhibit 5. We'll get you another copy of that.

24 That concludes our direct of this witness.

25 CHAIRMAN BROOKS: Okay.

1 In regard to the exhibits, you offered
2 also this cross-section. What's that?

3 MR. HALL: That's not marked. It should
4 be Exhibit 3.

5 CHAIRMAN BROOKS: Okay. So this is
6 Exhibit Number 3. Okay.

7 Exhibits 1 through 4 are admitted.

8 THE WITNESS: Can I say something?

9 I would also -- if you-all would like the
10 production curve on the subject well plus the
11 production curves within the half-mile radius, I can
12 furnish you that. That's public knowledge.

13 CHAIRMAN BROOKS: I think that would be
14 very helpful. Of course the data itself is readily
15 available to us from our own records.

16 THE WITNESS: Sure. That's where I get it
17 from.

18 CHAIRMAN BROOKS: But a picture is worth a
19 thousand words.

20 THE WITNESS: Yeah. I'll send it to you
21 in color.

22 CHAIRMAN BROOKS: Okay. We appreciate you
23 doing the work for us.

24 I think there's some -- was some confusion
25 between you and the Examiner -- or you and the

1 Technical Examiner here about the table that had the
2 area of review wells. I believe that's Exhibit 1C.

3 And the explanation was given about the Ps
4 and As.

5 Number 1, it's not consistent with OCD
6 usage.

7 And Number 2 is, it involved some
8 anomalies with these -- some of the other data in
9 the table.

10 So I would ask you to look again at the
11 column that's headed S at the top. That's the third
12 column to the right of the well name.

13 If P stands for producing and A stands for
14 abandoned, which was the Examiner's -- the Technical
15 Examiner's interpretation of your testimony, then we
16 would have producing wells listed with operators
17 such as Tenneco, Sinclair, and Fina. And those
18 would not be current operators, I'm sure, if those
19 were producing wells. They might be the last
20 operator, if they were plugged and abandoned wells.

21 And also, I know that we normally use --
22 in OCD we normally use P to mean plugged and A to
23 mean active. So I'm wondering, if you review that
24 data -- furthermore, your top line there above the
25 box is the New Mexico A State Number 1, which is the

1 subject well, right?

2 THE WITNESS: That is correct.

3 CHAIRMAN BROOKS: And it's shown as A,
4 which would be correct. Because even though it's
5 not producing anymore it's not plugged, right?

6 THE WITNESS: It is producing, but 3 MCF a
7 day.

8 CHAIRMAN BROOKS: Okay. So it is active.

9 THE WITNESS: Yes.

10 CHAIRMAN BROOKS: Now, if you would --
11 with those considerations in mind, would you review
12 this and tell us whether there are two or three
13 other active wells in the area of review, in the
14 half-mile area of review?

15 THE WITNESS: I will double-check it and
16 get back with you. But I can tell you right now
17 that 1 through 4 apparently exist as active wells.

18 CHAIRMAN BROOKS: Okay. So the -- well,
19 now, is the -- the New Mexico A Number 3, is that
20 active or is that plugged?

21 THE WITNESS: No. New Mexico A Number 3
22 is --

23 CHAIRMAN BROOKS: That's your well, right?

24 THE WITNESS: A Number 3 is plugged.

25 CHAIRMAN BROOKS: Okay.

1 THE WITNESS: I plugged it myself.

2 CHAIRMAN BROOKS: Okay. So then the
3 New Mexico A Number 1 is active?

4 THE WITNESS: Yes.

5 CHAIRMAN BROOKS: So presumably, if this
6 is taken from OCD records, which I assume it is, the
7 New Mexico Number 2, the Kemnitz Wolfcamp Unit
8 Number 22 and the Kemnitz Wolfcamp Unit Number 21
9 are all active. Would that be --

10 THE WITNESS: That's correct. This came
11 from the OCD's data. And those two MGM wells, 22
12 and 23 -- 21 and 22 are active.

13 CHAIRMAN BROOKS: Okay. What do you know
14 about the Ken Moore well?

15 THE WITNESS: The Ken Moore well is the
16 one in the unit letter O. And that's the one which
17 is currently disposing in the Wolfcamp as the
18 commercial.

19 CHAIRMAN BROOKS: That one is an injection
20 well now?

21 THE WITNESS: It's a disposal well, yes.

22 CHAIRMAN BROOKS: Okay. It's listed as
23 status active. Now, that would have been OCD
24 records, correct?

25 THE WITNESS: Yes.

1 CHIEF ENGINEER EZEANYIM: But here that
2 means abandoned.

3 CHAIRMAN BROOKS: No, that's what I'm
4 trying to get you and the witness together on.

5 THE WITNESS: I am going to find out where
6 this came from. I'm pretty sure it came from OCD.

7 CHAIRMAN BROOKS: That interpretation is
8 not consistent with much of the data on this table,
9 and I think it's wrong.

10 And I don't know what any well's
11 particular status is, but I think that if it came
12 from OCD records, P would mean plugged and A would
13 mean active, because that's what -- that's what we
14 do. And if it's a disposal well, it's S. And if it
15 has an I, that means it's an injection for pressure
16 maintenance or -- and that's covered.

17 Well, that's all I have.

18 Mr. Ezeanyim?

19 CHIEF ENGINEER EZEANYIM: Yes, but I
20 think -- you know, it was so confusing to me. But
21 anyway, I think we can get it right.

22 CHAIRMAN BROOKS: Well, that's what I want
23 to have done to get it right.

24 THE WITNESS: I think I should be able to
25 get an answer for you as early as tomorrow. Because

1 what happened, this came from some other commercial
2 outfit in Texas.

3 CHAIRMAN BROOKS: Yes.

4 THE WITNESS: And I believe this thing
5 here -- I'm like you. I don't believe this came
6 from OCD.

7 CHAIRMAN BROOKS: Well, I don't know where
8 it came from. But I think also that, you know,
9 you've told us that the two MGM wells, the 21 and
10 the 22, are active.

11 THE WITNESS: Yes, sir, they are.

12 CHAIRMAN BROOKS: They are producing.

13 And the Penroc New Mexico A State Number 3
14 is abandoned --

15 THE WITNESS: It's plugged.

16 CHAIRMAN BROOKS: -- plugged and
17 abandoned, which you would know about because it's
18 your well.

19 THE WITNESS: I plugged it, physically,
20 there.

21 CHAIRMAN BROOKS: I rest my case.

22 Mr. Ezeanyim, you may.

23 CHIEF ENGINEER EZEANYIM: I think we have
24 to rely on this table to see what...

25 Okay. Now, you plugged Number 3, which is

1 your well. But you put producing, according to you,
2 sir.

3 THE WITNESS: Say that again? I'm sorry.

4 CHIEF ENGINEER EZEANYIM: Okay. Look at
5 that New Mexico A Well Number 1.

6 THE WITNESS: Yes.

7 CHIEF ENGINEER EZEANYIM: P -- you have P,
8 means producing, and I was thinking it's plugged.
9 But you do mean plugged. You plugged it, right?

10 THE WITNESS: Number 3 I plugged.

11 CHIEF ENGINEER EZEANYIM: Okay. So it's
12 not producing.

13 THE WITNESS: Number 3 is plugged and
14 abandoned.

15 CHIEF ENGINEER EZEANYIM: Okay.

16 THE WITNESS: I've got a dry hole marker
17 sitting on it.

18 CHIEF ENGINEER EZEANYIM: Okay. Very
19 good. So does that mean that -- this A means active
20 or abandoned? What does that mean? You see, it's
21 confusing.

22 THE WITNESS: I understand where you're
23 coming from and I'll correct that. Number 1, A
24 Number 1, is active. The New Mexico A Number 1 is
25 active. The two MGM wells are active. So I know

1 those are active.

2 CHIEF ENGINEER EZEANYIM: I think we need
3 those, you know, revised, so that we can take a look
4 at it.

5 THE WITNESS: I will revise that.

6 CHIEF ENGINEER EZEANYIM: Okay. Apart
7 from that, now, let's go back.

8 You gave me a -- there's a lot of money,
9 but the question becomes, where do you get more
10 money?

11 THE WITNESS: That's the name of the game.

12 CHIEF ENGINEER EZEANYIM: Yeah, exactly.
13 So assuming you're going to get 100,000, suppose
14 my -- I produce -- I'm going to produce 55 barrels
15 of oil multiplied by 100.

16 THE WITNESS: I'm sorry?

17 CHIEF ENGINEER EZEANYIM: If I -- if this
18 is producing 55 barrels a day --

19 THE WITNESS: But you're not.

20 CHIEF ENGINEER EZEANYIM: Well, that's
21 what you told me.

22 THE WITNESS: No.

23 CHIEF ENGINEER EZEANYIM: You said from
24 the other --

25 THE WITNESS: In a half-mile radius the

1 two wells to the northeast, the MGM 21 and 22 are
2 only producing 3 to 5 MCF a day off the casing.
3 They don't even have a pump jack on it.

4 CHIEF ENGINEER EZEANYIM: Okay.

5 THE WITNESS: So they can't produce any
6 oil.

7 CHIEF ENGINEER EZEANYIM: They don't
8 produce any oil, then?

9 THE WITNESS: No.

10 CHIEF ENGINEER EZEANYIM: So I'm going to
11 cancel what you told me. I'm trying to go back to
12 your economic analysis to see which way we go now --

13 THE WITNESS: Right.

14 CHIEF ENGINEER EZEANYIM: -- assuming that
15 everything is correct, and all the variables are
16 left constant.

17 Now, I don't know how you come up, you
18 know, with how many barrels of water you inject or
19 how you pay the State or they collect it. And
20 that's good. If you do it, that's good.

21 But are we doing it at the expense of --
22 see, this is the point I have been making since you
23 started the presentation. And you can understand,
24 we don't want to drown production if there's
25 actually any production coming from there. And

1 that's why Mr. Jones asked you to bring this here,
2 so we can discuss this openly. If not, he could
3 have approved this in his office.

4 THE WITNESS: No, I understand.

5 CHIEF ENGINEER EZEANYIM: He said -- well,
6 I need to know how much production is coming there.
7 Are we going to drown production without designing a
8 water flood?

9 You told me that nobody else is interested
10 in doing the water flood in the area. That's okay.
11 I mean, if they find out that, really, a water flood
12 would be a loss, there's no point in doing it.

13 However, if the wells seem to be producing
14 something that is marketable or profitable, we don't
15 want to drown them. We are not going to drown them,
16 even if you're going to do secondary recovery or
17 anything.

18 So of course, you know, you are -- you
19 have to correct this table, tell us how many wells
20 are producing, give us those productions that you
21 are going to tell us. I mean, that would give us a
22 lot of information.

23 THE WITNESS: There are two wells
24 producing, the 21 and 22.

25 CHIEF ENGINEER EZEANYIM: Okay.

1 THE WITNESS: They are producing from the
2 casing, casinghead gas.

3 CHIEF ENGINEER EZEANYIM: Yeah.

4 THE WITNESS: That's all they are making,
5 3 to 5 MCF a day.

6 CHIEF ENGINEER EZEANYIM: Together?

7 THE WITNESS: Separately.

8 CHIEF ENGINEER EZEANYIM: Okay.

9 THE WITNESS: Okay. Now, you also have
10 got to keep in mind there's one tank battery. You
11 have got umpteen wells producing in that unit.

12 CHIEF ENGINEER EZEANYIM: Uh-huh.

13 THE WITNESS: So they're not going out and
14 testing each well separately. They're taking
15 these -- this 55 barrels a day plus, say, 1,200 MCF
16 of gas, and they are allocating production to X
17 number of wells.

18 CHIEF ENGINEER EZEANYIM: Okay. Now, I
19 think this Table C, when you reconstruct it to see
20 what the terms mean, which one is producing, which
21 one is active, which one is plugged and abandoned,
22 and others in the area of review for half a mile,
23 and then we want also to see the two-mile area of
24 review.

25 Because if you look at it from a C-108, we

1 don't want you to inject in any formation that is
2 about two miles in the area of review if any
3 production is coming from there. That's just how it
4 is.

5 But we can make exceptions if you prove to
6 us that, really, there's nothing coming out from
7 there. I haven't read the -- somebody studied it.
8 I need to read it. I don't know what it says. I
9 need to read it and do my own investigation to see
10 how correct that is. Then, plus your testimony
11 today.

12 THE WITNESS: We need -- can I say
13 something?

14 CHIEF ENGINEER EZEANYIM: Yeah, go ahead.

15 THE WITNESS: We need to keep two things
16 in mind -- at least two.

17 First, the well in question I'm here for
18 today -- or we're here for today -- that if the well
19 is sitting there and leave it the way it is, it's
20 going to have to be plugged. So it's not going to
21 serve any purpose to anybody else. It's a total
22 loss. It's going to cost 30- to \$40,000 to plug it.
23 It's gone. Is history.

24 If we inject in it, if we dispose in it
25 like we're wanting to, and we have produced

1 7 million BOE from the offsetting wells, and some
2 day in the future, if you fill up the reservoir and
3 it helps the offsetting well, it won't happen if you
4 plug this well.

5 CHIEF ENGINEER EZEANYIM: Where do you get
6 that information?

7 THE WITNESS: That's adding up all the
8 cumes in the area of review of all of these wells:
9 700,000 barrels here, 300,000 barrels here, 600,000
10 barrels here, plus the gas. If you add all of that
11 up, that's about 7 million barrels' oil equivalent.

12 What I'm saying, if we don't -- if nobody
13 puts water in the ground it will be lost.

14 CHIEF ENGINEER EZEANYIM: We normally plug
15 an abandoned well. I mean --

16 THE WITNESS: I'm sorry?

17 CHIEF ENGINEER EZEANYIM: We normally plug
18 an abandoned well. Once we plug them and abandon
19 them, they're gone, right?

20 THE WITNESS: Yeah.

21 CHIEF ENGINEER EZEANYIM: But my argument
22 still stands that we need to look at production from
23 that formation.

24 THE WITNESS: Sure.

25 CHIEF ENGINEER EZEANYIM: That's why you

1 were sent to hearing, nothing else. Nobody objected
2 to this. You were sent to hearing to tell me
3 whether that's really -- further production in this
4 area we are talking about. But if not, then we
5 maybe will grant your request.

6 But if it is that they're going to drown
7 the production without designing a water flood,
8 well, it might be difficult for us to do that,
9 because that's why we're here.

10 THE WITNESS: But that's the point,
11 Examiner. That we've got this well sitting here.
12 It could very well be a pilot for the rest of the
13 field, which nobody is attempting to do today.

14 I mean, if this area alone had made 6,
15 7 million BOE, if you take the whole unit -- but
16 there are 22-some wells -- it might -- it might
17 prove it to somebody that if you flood it, given the
18 right economic incentives, price of oil and cost of
19 doing it and all of that, that this well can very
20 well be an example of how we're going to help it X
21 years down the road.

22 Number 2, you've got a disposal well in
23 unit letter O.

24 CHIEF ENGINEER EZEANYIM: In the Wolfcamp.

25 THE WITNESS: It's in the Wolfcamp. It

1 shows this cross-section. It's been disposing for
2 the last five years.

3 CHIEF ENGINEER EZEANYIM: Who owns that
4 well?

5 THE WITNESS: Ken Moore.

6 CHIEF ENGINEER EZEANYIM: Ken Moore? Oh,
7 okay.

8 THE WITNESS: Ken Moore is the operator.

9 CHIEF ENGINEER EZEANYIM: Okay. Do you
10 know the order number that they --

11 THE WITNESS: I can get it, but I don't
12 have it.

13 CHIEF ENGINEER EZEANYIM: Yeah, I need to
14 get the order number and look at that well.

15 And do you know when it was issued? A
16 long time ago?

17 THE WITNESS: Five years ago.

18 CHIEF ENGINEER EZEANYIM: Okay.

19 THE WITNESS: Five or six years ago. I'm
20 guessing now.

21 CHIEF ENGINEER EZEANYIM: Okay. I need to
22 know that. Maybe we approve it administratively.
23 Remember, now, we continue to improve. At the time
24 we issue the order -- I need to look at that. I'm
25 not saying it's going to. If you prove your case,

1 that's fine.

2 THE WITNESS: It also shows on this
3 cross-section.

4 CHIEF ENGINEER EZEANYIM: Okay. Give me
5 that number. Give us the production history that
6 you are going to give, and the other number that
7 establishes that injection well in unit O, right?

8 THE WITNESS: In unit letter O, yes.

9 CHIEF ENGINEER EZEANYIM: Yeah. If you
10 can get it back to us that will be good.

11 Now, let's go back to where I'm going.
12 This is going to be a commercial?

13 THE WITNESS: Just like the other one.

14 CHIEF ENGINEER EZEANYIM: Okay. Good.
15 Give me that. As you know, a commercial disposal,
16 water can come from anywhere. Where is the main
17 source of the water?

18 THE WITNESS: The main source of the water
19 will be from the surrounding -- within the -- 20 to
20 30 miles each direction.

21 CHIEF ENGINEER EZEANYIM: Yeah.

22 THE WITNESS: Right now we've got a lot of
23 flowback water coming from Maljamar, the Loco Hills
24 area. We've got a lot of flowback water and frack
25 water coming back from north of Maljamar in the Abo

1 play. There's going to be a lot of water coming
2 from the Buckeye area where Chevron is fixing to do
3 infill work. So there's noplac to go with the
4 water.

5 CHIEF ENGINEER EZEANYIM: Yes, I know.
6 But what formation is that water coming from?

7 THE WITNESS: The water is going to come
8 from the Yeso, from the Abo-Wolfcamp, those are the
9 two main formations.

10 CHIEF ENGINEER EZEANYIM: And I think you
11 have given us --

12 THE WITNESS: Once again, we have a good
13 example of what the offset operator is doing. He
14 don't have any problem. I drove to his well Friday
15 and thinking, well, maybe he put a pump on it. He
16 still don't have a pump.

17 So I called George and I said, "Are you --
18 when are you going to put a pump on it?"

19 He said, "I don't need it."

20 Of course, you know, he's taking it on
21 vacuum.

22 CHIEF ENGINEER EZEANYIM: Okay. Talking
23 about vacuum, you're going to start injecting in a
24 vacuum. You don't have to -- if you don't have any
25 injection, you're going to introduce water into the

1 well by a vacuum. Am I right?

2 THE WITNESS: Right.

3 CHIEF ENGINEER EZEANYIM: But you're still
4 required to give your .2 PSI input?

5 THE WITNESS: Yes. Because we don't want
6 to come back in X number of years down the road. We
7 know it's going to pressure up some day. I just
8 don't know when -- unless you want me to come back
9 to Santa Fe and spend the night in a hotel again.

10 CHIEF ENGINEER EZEANYIM: Okay. Let's go
11 back to plugged and abandoned wells.

12 Are the plugged and abandoned wells
13 plugged and abandoned to -- I haven't looked at
14 them, but I'm going to look at it. But I'm going to
15 ask you: When they are plugged, do they act as
16 conduits for the water that's injected there to go
17 up -- upwards, right?

18 You know there are plugged and abandoned
19 wells.

20 THE WITNESS: Right.

21 CHIEF ENGINEER EZEANYIM: Okay. You've
22 looked at the schematic of yours, probably, and the
23 cemented tops. Have you?

24 THE WITNESS: Based on everything I've
25 seen, the way they were plugged, they're properly

1 plugged.

2 CHIEF ENGINEER EZEANYIM: Okay.

3 THE WITNESS: Like I said, we would not
4 have come to ask for a disposal or injection permit
5 if any one of them were not meeting the criteria.

6 CHIEF ENGINEER EZEANYIM: On the current
7 need for these marginal producing wells, we -- they
8 can't act as our pilots, where you started looking
9 to see whether there will be more production for
10 those wells that are now producing. We're going to
11 mark "producing" within that area of review, right?

12 THE WITNESS: You're going to mark -- I'm
13 sorry?

14 CHIEF ENGINEER EZEANYIM: Like some of
15 them, if you look at your sheet, some of the wells
16 will be producing. Then our problem becomes --
17 well, they will be producing.

18 As you start injecting into these wells,
19 if you prove it, right, they'll see the producers.
20 Are you going to use those as the pilot, you said
21 maybe to help with the oil towards the well --

22 THE WITNESS: I think that would be up to
23 the -- that would be up to the offset operator, MGM.
24 You know, it might help. I'm just making a general
25 statement. It might help to improve production down

1 the road.

2 CHIEF ENGINEER EZEANYIM: But if I were to
3 approve this application, they will still be
4 producers, right?

5 THE WITNESS: Yeah.

6 CHIEF ENGINEER EZEANYIM: They'll be --

7 THE WITNESS: Right.

8 CHIEF ENGINEER EZEANYIM: -- because not
9 only are they plugged and abandoned, in this case
10 Number 1 to the injection --

11 THE WITNESS: Right.

12 CHIEF ENGINEER EZEANYIM: -- the well that
13 is producing, we've seen them be producers.

14 THE WITNESS: They will still be
15 producing, yes.

16 CHIEF ENGINEER EZEANYIM: Maybe they're
17 going to produce the water that you inject.

18 THE WITNESS: I'm sorry?

19 CHIEF ENGINEER EZEANYIM: Maybe they are
20 going to produce the water you inject. I don't
21 know.

22 You know, see -- see, I'm concerned about
23 injecting in a well that is producing something.

24 THE WITNESS: Well, right now it's not
25 producing anything but a little gas, those two

1 wells. And if you produce 700,000 barrels of oil
2 out of this reservoir, obviously, there's some
3 residual oil left which should be pushed towards the
4 producer, like a typical water flood or secondary
5 recovery.

6 CHIEF ENGINEER EZEANYIM: You said that
7 most of these cements since 1980, there is no issue
8 with their leakage in the cement.

9 How do you test them, MIT? Do you conduct
10 MIT every year?

11 THE WITNESS: Every year. Of course we --
12 we check it every day. We have -- on all of our
13 other disposal wells we have people checking the
14 backside every day monitoring it.

15 CHIEF ENGINEER EZEANYIM: Usually a
16 test --

17 THE WITNESS: Usually a test, but we
18 normally check the pressure, doing casing pressure.

19 CHIEF ENGINEER EZEANYIM: Do you conduct
20 MITs on the individual wells?

21 THE WITNESS: We conduct it as required by
22 the State, but we do it on our own, too.

23 CHIEF ENGINEER EZEANYIM: Oh, okay.

24 THE WITNESS: You need to keep in mind we
25 haul -- we would be hauling water for major oil

1 companies. And they would not want their water
2 going to a system if it's not an A-1 system, if it's
3 not a high-class system. They do come out and check
4 us from time to time. Most companies do. I can
5 mention some names, but I'm not.

6 CHIEF ENGINEER EZEANYIM: Why don't you
7 tell me the depth of freshwater here. Do you have
8 any idea?

9 THE WITNESS: 150 to 200 feet.

10 CHIEF ENGINEER EZEANYIM: Okay.

11 I was going to look at casings to see
12 whether they are protected.

13 You've done a good job.

14 Mr. Brooks, do you have any other
15 questions?

16 CHAIRMAN BROOKS: No further questions.

17 CHIEF ENGINEER EZEANYIM: You may be
18 excused.

19 THE WITNESS: Thank you.

20 CHAIRMAN BROOKS: Anything further,
21 Mr. Hall?

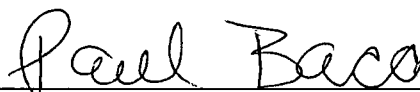
22 MR. HALL: No, sir.

23 CHAIRMAN BROOKS: Case Number 14874 will
24 be taken under advisement.

25 (Proceedings concluded)
I hereby certify that the foregoing is a true and complete record of the proceedings in the Examiner hearing of Case No. 14874, heard by me on 6-25-12.

CERTIFICATE

I, Paul Baca, RPR, CCR in and for the
State of New Mexico, do hereby certify that the
above and foregoing contains a true and correct
record, produced to the best of my ability via
machine shorthand and computer-aided transcription,
of the proceedings had in this matter.



PAUL BACA, RPR, CCR
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