

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

IN THE MATTER OF:)
)
THE APPLICATION OF C.W. TRAINER)
FOR DIRECTIONAL DRILLING AND AN) CASE NO. 10137
UNORTHODOX GAS WELL LOCATION,)
LEA COUNTY, NEW MEXICO.)
_____)

REPORTER'S TRANSCRIPT OF PROCEEDINGS

EXAMINER HEARING

BEFORE: JIM MORROW, Hearing Examiner

November 28, 1990
8:15 a.m.
Santa Fe, New Mexico

This matter came on for hearing before the Oil Conservation Division on November 28, 1990, at 8:15 a.m. at Oil Conservation Division Conference Room, State Land Office Building, 310 Old Santa Fe Trail, Santa Fe, New Mexico, before Deborah LaVine, RPR, Certified Shorthand Reporter No. 252 and Notary Public, in and for the County of Santa Fe, State of New Mexico.

FOR: OIL CONSERVATION
DIVISION

BY: DEBORAH LAVINE, RPR
Certified Shorthand Reporter
CSR No. 252

HUNNICUTT REPORTING
DEBORAH LAVINE, CSR, RPR

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A P P E A R A N C E S

BEFORE: JIM MORROW, Hearing Examiner

FOR THE DIVISION: ROBERT G. STOVALL, ESQ.
General Counsel
Oil Conservation Commission
State Land Office Building
310 Old Santa Fe Trail
Santa Fe, New Mexico 87501

FOR THE APPLICANT: LOSEE, CARSON, HASS & CARROLL, P.A.
Attorneys at Law
BY: ERNEST L. CARROLL, ESQ.
300 American Home Building
Artesia, New Mexico 88211

FOR ORYX ENERGY COMPANY: KELLAHIN, KELLAHIN & AUBREY
Attorneys at Law
BY: TOM KELLAHIN, ESQ.
117 North Guadalupe
Santa Fe, New Mexico 87501

** * **

HUNNICUTT REPORTING
DEBORAH LAVINE, CSR, RPR

1 EXAMINER MORROW: Call for appearances.

2 MR. CARROLL: Mr. Examiner --

3 MR. STOVALL: Let me give the call of the case first,
4 Ernie, please.

5 MR. CARROLL: Oh, okay. Excuse me.

6 MR. STOVALL: It'll be 10137, application of C.W. Trainer
7 for directional drilling and an unorthodox gas well location,
8 Lea County, New Mexico.

9 EXAMINER MORROW: Now we'll call for appearances.

10 MR. CARROLL: Mr. Examiner, my name is Carroll of Losee,
11 Carson, Haas & Carroll, appearing here on behalf of C.W.
12 Trainer, the applicant.

13 MR. STOVALL: How many witnesses do you have, Mr.
14 Carroll?

15 MR. CARROLL: Mr. Examiner, I have three witnesses. They
16 went down to get one of them out of the coffee shop, and
17 they'll be right here.

18 MR. STOVALL: As soon as they show up, we'll swear them
19 in.

20 MR. KELLAHIN: Mr. Examiner, I'm Tom Kellahin of
21 Kellahin, Kellahin & Aubrey, appearing on behalf of Oryx
22 Energy Company to enter our appearance and to waive any
23 objection. We're an offsetting operator and as soon as the
24 copy machine warms up, I will make copies of the waiver and
25 submit it for the record.

1 (THEREUPON, a discussion was held off the record.)

2 MR. STOVALL: Do you want to go ahead and swear them in
3 so we can get started with Mr. Trainer.

4 C.W. TRAINER

5 the Witness herein, having been first duly sworn, was examined
6 and testified as follows:

7 DIRECT EXAMINATION

8 BY MR. CARROLL:

9 Q. Would you please state your name and address for
10 the record.

11 A. My name is C.W. Trainer, 526 Sandy Mountain Drive,
12 Sunrise Beach, Texas.

13 Q. Mr. Trainer, you are the applicant in this cause
14 number 10137, are you not?

15 A. Yes, I am.

16 Q. And would you please state briefly what you're
17 seeking from the commission?

18 A. I'd like to drill a well.

19 Q. And basically what kind of action do you need the
20 commission to do to enable you to drill this well?

21 A. To be more specific, I have a well and it didn't
22 produce. And the bottom of it needs to be a quarter of a mile
23 east to get into the gas sand. And so we want to mill a
24 window in the pipe about 9,000 feet and then directionally
25 drill to put the bottom of it a quarter of a mile east of

1 where it is now.

2 Q. And so what you're doing is seeking an exception to
3 the well location requirements of Rule 104?

4 A. True.

5 (Applicant's Exhibit No. 1 was marked
6 for identification.)

7 Q. Now, Mr. Trainer, you have prepared Exhibit 1, a
8 land plat, have you not?

9 A. Yes, sir.

10 Q. Would you please describe what is depicted on this
11 land plat for the examiner.

12 A. My acreage --

13 MR. STOVALL: Just a minute, Mr. Trainer.

14 (THEREUPON, a discussion was held off the record.)

15 MR. STOVALL: I'm sorry. Go ahead, Mr. Trainer.

16 A. My acreage involved in this project is Section 5
17 and 6, two sections of federal acreage. There are three
18 federal oil and gas leases involved as shown on this ownership
19 map, a 40-acre lease where the old well is in the southwest of
20 the southeast of Section 5. A quarter section lease in the
21 east half east of Section 5 was a KGS lease, and the big
22 1080-acre lease is the balance of the acreage. 14004 is the
23 federal number.

24 EXAMINER MORROW: Excuse me just a minute. That's the
25 southeast of the southeast?

1 THE WITNESS: The service location of the well is the
2 southwest of the southeast.

3 EXAMINER MORROW: The red spot then --

4 THE WITNESS: Is the target. That's where we need to be
5 There may be a fault between the gas field and the original
6 well over there as indicated on some Oryx exhibits at their
7 hearings for drilling the two wells on Section 9.

8 (Applicant's Exhibit No. 2 was marked
9 for identification.)

10 Q. (By Mr. Carroll:) Mr. Trainer, you have given
11 notice to all the offset operators as required by commission
12 rules, have you not? And isn't Exhibit 2 then the certificate
13 of compliance with those requirements of notice?

14 A. Yes, it is.

15 Q. Exhibit A to that certificate, Exhibit 2, lists six
16 offset operators; is that correct?

17 A. That is correct, yes.

18 Q. Now with respect to these offset operators, have
19 you had any conversations with, starting with the bottom,
20 Exxon Company?

21 A. I haven't said anything to Exxon, no.

22 Q. Exxon contacted you after the notice was sent to
23 them?

24 A. No, not unless you got it at your office.

25 Q. Okay. Kaiser Francis, you've received a waiver,

1 have you not, and we will present that as an exhibit?

2 A. Yes, they gave us a waiver.

3 Q. Yates Petroleum, you have contacted them and though
4 they have not submitted a waiver, since I represent Yates
5 also, then you have an agreement with them that they won't?

6 A. They said they wouldn't oppose us, no.

7 Q. BTA, you've had no contact from them, have you?

8 A. No, but they're not an operator of record, but they
9 don't have energy in those wells in Section 9.

10 Q. And Oryx Energy, Mr. Kellahin has made an
11 appearance and has presented a waiver. I believe he presented
12 one.

13 MR. STOVALL: We have copies. You can get a copy.

14 MR. CARROLL: All right.

15 Q. (By Mr. Carroll:) They have waived their
16 appearance, I mean, waived objection to this application, have
17 they not?

18 A. I believe so, yes.

19 Q. And Hadson Petroleum, that interest is now
20 controlled by LANO, is it not? It is a subsidiary of --

21 A. Hadson bought LANO. It was LANO originally.

22 Q. And you have entered into an agreement with them,
23 though we do not have a waiver?

24 A. Yes, Mike McGinley was supposed to be here. Is he?
25 I wanted to meet him.

1 Q. They were supposed to show up, but that was our
2 last word.

3 A. But he said no objection. They have other
4 interests in the area, and I don't think there's any problem
5 with Hadson.

6 (Applicant's Exhibit No. 3 was marked
7 for identification.)

8 Q. Now as Exhibit 3, we will present the waiver that
9 Kaiser Francis has given us. Exhibit 3 is the waiver as
10 executed by Kaiser Francis, is it not?

11 A. Right.

12 Q. Now, Mr. Trainer, could you give us a brief history
13 of this well. This well was not originally drilled. Could
14 you explain to the commission how you obtained it and what
15 happened with the initial drilling and attempts at completion
16 of this well?

17 A. The 40 acres was drawn in the lottery by Larry
18 Harris's wife in Roswell, and Larry farmed it out to L&B Oil
19 Company of Houston, who drilled the well, and about eight
20 years ago, I believe. And it didn't make a well. And Larry
21 got it back, and I got it from him.

22 Q. This well was originally drilled to the Morrow
23 sand, was it not?

24 A. Yes, they drilled to 14,050, and to the Morrow
25 sand, they had considerable trouble with it and really didn't

1 conclusively test the sands. They didn't establish it. To my
2 mind, it's really not productive. But it's a pretty low well,
3 and I'd rather get over there and hire them.

4 Q. Now the wells in this area -- well, excuse me. Let
5 me rephrase that question. You are seeking to directionally
6 drill this well so as to test the Morrow sand but at a
7 location closer to the south and east lines; is that correct?

8 A. Yes. If I might elaborate a minute, my original
9 play in there was for a bone spring. And I attempted a bone
10 spring completed in this well and made a little well but not a
11 keeper really. But there have been three more test drills to
12 the south, one in Section 8 and two in Section 9. And so the
13 Morrow outage has gotten better while I've had it, and it's
14 time to drill.

15 Q. Now there have been prior -- the commission has had
16 an occasion to look at this particular area and the Morrow
17 sand in an application that was made by Oryx in case number
18 99-13 and 99-14; is that correct?

19 A. That is correct.

20 Q. Wherein they sought acreage rededication and an
21 unorthodox gas well location. For what well, could you point
22 out on Exhibit 1 where that was --

23 A. In Section 9 of Oryx, initially they dedicated the
24 north half of Section 9 and drilled the number 1 well in the
25 northwest of the northeast and made an excellent well. So

1 then they petitioned the commission and had a hearing and
2 proved that that well would drain the east half of Section 9
3 so they could drill an additional well on the west half of
4 Section 9, which they did. And it's in the northwest of the
5 northwest of 9. So they have two unorthodox wells there now,
6 making a lot of gas.

7 Q. During their presentation, they actually introduced
8 exhibits which showed that a fault existed that ran through
9 the corner of your acreage; is that correct?

10 A. Yes. They really opened my eyes with the exhibits
11 here because they showed that major fault, and so I have a
12 good high location on the upturned side of the fault. And
13 that's where I want to drill to.

14 Q. And Mr. Kincheloe, a geologist, will testify in
15 depth with respect to that particular geology --

16 A. Well --

17 Q. -- in support of you?

18 A. -- he didn't do the Oryx geology, but he's done a
19 lot for me in there. And he's his own man, but we go by both.

20 Q. And you wish to dedicate the east half of Section 5
21 to this well; is that correct?

22 A. I believe so, uh-huh.

23 Q. And, Mr. Trainer, I didn't qualify you, but you
24 have testified before this commission many times as an
25 owner/operator and engineer, have you not, and been accepted,

1 had your credentials accepted on that basis?

2 A. My credentials have been accepted, yes.

3 MR. CARROLL: Mr. Examiner, I'm going to ask him
4 questions concerning prevention of waste and correlative
5 rights, and I would tender him as an expert
6 engineer/owner/operator as having been accepted prior to this
7 time by this commission.

8 EXAMINER MORROW: All right. He's accepted.

9 Q. (By Mr. Carroll:) Mr. Trainer, in your opinion, the
10 granting of this application, do you feel that it would
11 prevent waste?

12 A. Well, sure, we're going to produce the gas.

13 Q. And you feel that there's gas that would not be
14 produced unless this application were granted?

15 A. Well, I sure wouldn't get to produce it, and it
16 probably wouldn't be produced at all.

17 Q. And do you feel that correlative rights would be
18 protected by the granting of this application?

19 A. Certainly.

20 Q. And it would allow you to produce gas which
21 underlies your tract; is that correct?

22 A. True.

23 MR. CARROLL: I would pass the witness at this time.

24 EXAMINER MORROW: Okay. Mr. Kellahin, do you have --
25 he's not here.

1 MR. STOVALL: I think Mr. Kellahin wouldn't have any
2 questions since they're waiving, I would assume. Let me ask
3 you a question, Mr. Carroll. You've identified the Oryx cases
4 for unorthodox locations. Is there anything in those cases
5 that would be useful to the examiner that would justify
6 bringing those records here for --

7 MR. CARROLL: No, you're -- Mr. Stovall, what we've done
8 is that there is one exhibit. But we have made a copy of it,
9 and we'll present it as an exhibit of our own so that -- it'll
10 save time having to go through those records.

11 THE WITNESS: The one that shows where that fault --
12 where they showed that fault.

13 MR. CARROLL: Yeah, just --

14 EXAMINER MORROW: Anything else?

15 MR. STOVALL: I don't have any.

16 EXAMINER MORROW: I have a couple questions, Mr. Trainer.

17 EXAMINATION

18 BY EXAMINER MORROW:

19 Q. Will your geologist tell us about the wells in
20 Section 8? Is that -- or if not, would you tell us where the
21 wells in Section 8 are to which you've referred.

22 A. There's only the one Morrow well, the dry hole in
23 the southeast of the northeast of 8. Is it on one of the
24 cross sections on there?

25 MR. STOVALL: Mr. Trainer, you go ahead and answer the

1 questions to the best of your knowledge. And if he needs
2 to -- it'll keep the record cleaner. It's easier to read when
3 we do that.

4 Q. (By Examiner Morrow:) Well, let me back up a
5 minute. I understood you to say that there was a producing
6 well in Section 8.

7 A. No, it was dry.

8 Q. But if that's incorrect, well --

9 A. It was dry.

10 Q. -- that's all I need on that.

11 A. I believed it at the time. They offered to give it
12 to me, and I didn't want --

13 Q. And why are the Oryx locations in Section 9, what
14 makes them unorthodox?

15 A. They're both on the north half of Section 9, but
16 they're dedicated to the west half and the east half. And
17 neither one of them are 1980 from the long side and 660 from
18 the short side by the commission rules.

19 Q. And those rules that would be applicable here, what
20 rules are those, the statewide rules or --

21 A. Yes.

22 Q. -- the field rules?

23 A. Yeah, 320-acre spacing, the rule is that you have
24 to be 1980 from one end and 660 from the other.

25 Q. And neither of these are?

1 A. Neither of these are, no.

2 EXAMINER MORROW: That's all the questions I have for Mr.
3 Trainer.

4 MR. CARROLL: Our next witness would be Gene Lee.

5 MR. STOVALL: Have you got both your witnesses here to be
6 sworn now?

7 MR. CARROLL: Yes.

8 MR. STOVALL: Let's go ahead and swear the other two
9 witnesses in.

10 GENE LEE

11 the witness herein, having been first duly sworn by the Notary
12 Public, was examined and testified as follows:

13 DIRECT EXAMINATION

14 BY MR. CARROLL:

15 Q. Would you please state your name and address for
16 the record.

17 A. My name is Gene Lee, 1306 Meadow Lane, Roswell, New
18 Mexico.

19 Q. Mr. Lee, what is your occupation?

20 A. I'm an independent consultant for the various
21 operators in southeast New Mexico.

22 Q. Are you a well site completion type expert, an
23 independent expert of that nature?

24 A. Yes, that's correct and do independent engineering
25 and well setting work.

1 Q. Have you previously testified before the commission
2 and had your credentials as such accepted?

3 A. Yes, several times in the past few months.

4 MR. CARROLL: Mr. Examiner, I would tender Mr. Lee as an
5 expert practical well site and well completion engineer.

6 EXAMINER MORROW: What was your first name, Mr. --

7 THE WITNESS: Gene.

8 EXAMINER MORROW:

9 THE WITNESS: G-e-n-e.

10 EXAMINER MORROW: Your qualifications are by experience
11 and practical work in the field?

12 THE WITNESS: Yes.

13 EXAMINER MORROW: And you have testified before; is
14 that --

15 THE WITNESS: Yes, that's correct.

16 EXAMINER MORROW: His qualifications are accepted.

17 Q. (By Mr. Carroll:) Now, Mr. Lee, are you familiar
18 with the application that has been made by C.W. Trainer before
19 this commission?

20 A. Yes, I am.

21 Q. And, Mr. Lee, have you been commissioned by Mr.
22 Trainer to perform certain work with respect to that
23 application and with respect to this Harris well and the
24 redrilling of it?

25 A. Yes, I was hired by Mr. Trainer originally when he

1 picked up this lease, and we reentered the Harris Number 1 and
2 did all the reentry work on the well to date.

3 Q. Have you prepared information for submission to the
4 commission today with respect to this particular application
5 wherein we seek permission to directionally drill the Harris
6 well and bottom that well at a point 660 feet from the south
7 and east lines?

8 A. Yes, uh-huh, I am.

9 (Applicant's Exhibit No. 4 was marked
10 for identification.)

11 Q. I'll hand you what has been marked as Exhibit 4.
12 Did you prepare this AFE for the project that we've been
13 discussing?

14 A. Yes, I prepared this AFE for this proposed
15 directional job over to the Morrow on the upside of the fault.

16 Q. And does this AFE provide for the directional
17 drilling of this well and all of those associated costs?

18 A. Yes, it does.

19 (Applicant's Exhibit No. 5 was marked
20 for identification.)

21 Q. I'll hand you what's been marked as Exhibit 5. Did
22 you prepare Exhibit 5?

23 A. Yes, I did.

24 Q. What is Exhibit 5?

25 A. It's the current well bore schematic diagram

1 showing the conditions of the well as it presently is.

2 Q. If you might just explain the significance briefly
3 for the commission so that they might better understand what's
4 going on, and refer back, if you need to, to your Exhibit 4.
5 I thought it might be easier for you to discuss the two
6 together.

7 A. Okay. In my cost estimate in Exhibit 4 for my AFE,
8 I have included in it some cost to fish out some packers and
9 do some casing repair and squeeze work in the existing well
10 bore. And this is shown on the AFE as the rental tools and
11 equipment, casing repair and cement, and things of that nature
12 in there as well as additional time to complete this.

13 The way the well is sitting now, there are a couple
14 of zones with open perforations in there that will have to be
15 squeezed prior to drilling our -- cutting our window at 9,000
16 feet and sidetracking and to start doing our directional work.
17 The casing integrity needs to be put back in good shape.

18 (Applicant's Exhibit No. 6 was marked
19 for identification.)

20 Q. I'll hand you what has been marked as Exhibit 6.
21 Would you explain what Exhibit 6 is.

22 A. Exhibit Number 6 is the well bore trajectory
23 starting at our kickoff point of 9,000 feet. This is where we
24 propose to cut a window into the 7 and 5/8ths casing and start
25 building our angle to a 20-degree angle and hold that angle to

1 our target in the top of the A sand, which is target number 1
2 designated on here, and also through target number 2, which
3 will be through our actual TD 660 from the south and east
4 lines. On the right-hand side of the diagram, the scale shows
5 our departure and shows how far to the east we will be going
6 as we cut out the window and build our angle.

7 Q. Mr. Lee, this particular proposal to drill this
8 well directionally and the exhibits that you've prepared, 4, 5
9 and 6, first of all, have the exhibits all been prepared and
10 the information that's contained therein, have they been
11 compiled according to generally accepted engineering concepts
12 for this particular area of New Mexico?

13 A. Yes, they have. And I have requested several bids
14 and proposals from different companies. And the Scientific
15 Drilling International is the one that proposed this. And we,
16 Mr. Trainer and myself and George Moody with Scientific
17 Drilling, all coordinated our trajectory design and everything
18 together here so we could make our -- build our angle at not
19 such a steep angle by coming out the bottom of the casing.
20 That's why we're cutting a window at 9,000 and starting off up
21 there.

22 Q. Well, Mr. Lee, do you feel that this project as
23 designed is a reasonable one in your own experience and
24 knowledge and can reasonably be accomplished without undue
25 problems or danger to the producing zones and what have you?

1 A. Yes, I do.

2 MR. CARROLL: I would pass the witness at this time, Mr.
3 Examiner.

4 EXAMINATION

5 BY EXAMINER MORROW:

6 Q. Mr. Lee, the target location will be 660 from south
7 and east; is that correct?

8 A. Yes, that's correct.

9 Q. This was advertised as unorthodox location. Would
10 that be unorthodox location?

11 A. Yes, according to the statewide rules, it would be.

12 Q. Tell me again why that would be. I guess I missed
13 something that Mr. Trainer said.

14 A. According to the state regulations, they require
15 from the end of the proration unit, the well to be 1980 from
16 the line and from the side, 660 from the side of the proration
17 unit. These --

18 Q. It's got to be 1980 from both ends; is that what
19 you said?

20 A. No, sir. 1980 from one end and 660 from the side.

21 Q. Well, wouldn't it be 1980 from the other end?

22 MR. STOVALL: Yeah, there would be --

23 A. Yeah, but we're trying to dedicate the east half of
24 this section. As a south half unit, it is a legal location.

25 (THEREUPON, a discussion was held off the record.)

1 EXAMINER MORROW: I don't know I would be for either one,
2 but I probably missed something in the rule there.

3 MR. CARROLL: Well, as we read the rule, there is a box
4 that the well has to be within. And the north, the top end,
5 or the south, the bottom end, that well has to be 1980 feet
6 from the boundary line. So it has to be 1980 from the top and
7 1980 from the south. We certainly are from that distance from
8 the top. But the bottom one, we are not.

9 EXAMINER MORROW: So it means from both ends?

10 MR. CARROLL: Both ends, yes, sir.

11 (THEREUPON, a discussion was held off the record.)

12 MR. STOVALL: Mr. Trainer, please, it makes the record
13 hard. I'm sorry.

14 MR. CARROLL: But, Mr. Examiner, that is the reason. And
15 we originally -- this is an amended application. We
16 originally sought it out at 330, but in working with some of
17 the other operators and reexamining our geology, we then opted
18 to go the 660. That seemed to appease a lot of folks, and
19 that's why we ended up with that amended application. And
20 that's why it's unorthodox.

21 MR. STOVALL: So if I'm not mistaken, it is unorthodox to
22 the south end but not to the east side boundary; is that
23 correct?

24 THE WITNESS: It would still be unorthodox as far as the
25 east half because of the --

1 MR. STOVALL: No, no, I mean, but it's only unorthodox to
2 the south, not to the east.

3 MR. CARROLL: East boundary.

4 MR. STOVALL: East boundary of the east half?

5 THE WITNESS: That's correct, yes.

6 MR. STOVALL: And there are no special pool rules here?
7 This is under statewide 320 spacing, Morrow spacing?

8 THE WITNESS: That's correct.

9 EXAMINER MORROW: All right. Is there anything else?

10 MR. STOVALL: That's all the questions.

11 MR. CARROLL: All right, Mr. Examiner. I would next call
12 Dalton Kincheloe.

13
14 DALTON KINCHELOE

15 the witness herein, having been first duly sworn by the Notary
16 Public, was examined and testified as follows:

17 DIRECT EXAMINATION

18 BY MR. CARROLL:

19 Q. Would you please start your name and address.

20 A. Dalton Kincheloe, 2011 South Pan, Roswell, New
21 Mexico.

22 Q. What is your occupation, Mr. Kincheloe?

23 A. Independent geologist.

24 Q. How long have you been an independent geologist,
25 Mr. Kincheloe?

1 A. Since 1952.

2 Q. All right.

3 A. No, '62.

4 Q. And most of that time is spent in southeastern New
5 Mexico?

6 A. All of it.

7 Q. Mr. Kincheloe, you have testified before this
8 commission and had your credentials accepted as a --

9 A. On occasion.

10 Q. I would tender Mr. Kincheloe as an expert in the
11 field of geology

12 EXAMINER MORROW: Yes, sir, would you spell your last
13 name for us.

14 THE WITNESS: K-i-n-c-h-e-l-o-e.

15 EXAMINER MORROW: Yes, sir, his qualifications are
16 accepted.

17 MR. CARROLL: All right.

18 Q. (By Mr. Carroll:) Now, Mr. Kincheloe, you're
19 familiar with this application that has been filed by C.W.
20 Trainer, are you not?

21 A. Yes, sir.

22 Q. And Mr. Trainer has retained you to perform some
23 geological work in this area and you have done so, have you
24 not?

25 A. Right.

1 (Applicant's Exhibit No. 7 was marked
2 for identification.)

3 Q. First of all, Mr. Kincheloe, we have had reference
4 to a prior hearing which dealt with this particular area which
5 was a hearing that was on an application by Oryx Energy in
6 case number 99-13 and 14. I'll hand you what we've marked as
7 Exhibit 7. Is this an exhibit from that hearing?

8 A. Yes, sir.

9 Q. Would you briefly describe what this particular
10 exhibit shows and how it relates to Mr. Trainer's acreage?

11 A. This is an exhibit on the Morrow, structure map on
12 the Morrow. And it shows existing wells as of today with
13 number 2 being completed there in Section 9. It also shows a
14 fault extending diagonally northeast to southwest across
15 Section 5. This fault shows that Mr. Trainer has some acreage
16 on the upturned side of the fault and that if he does have, he
17 has gas potential in that particular part of the lease.

18 Q. Now, Mr. Kincheloe, this geological work that was
19 performed by Oryx at least presents an explanation why Mr.
20 Trainer's well was dry in the Morrow, does it not?

21 A. Yes, it would suggest it would probably be dry.

22 Q. Now you have performed and prepared some of your
23 own geological work in this area, have you not?

24 A. Yes, sir.

25 Q. And with respect to the exhibits that you have

1 prepared -- let's go to your first exhibit, I believe, is a
2 map on the A sand; is that not correct? Why don't you show
3 me.

4 A. (Witness complies.)

5 MR. CARROLL: Mr. Examiner, we were a little slow in
6 getting these things marked.

7 EXAMINER MORROW: You all are doing good.

8 MR. CARROLL: But we're --

9 THE WITNESS: We had them all spread out downstairs, and
10 he said it's time to go, so didn't do too well.

11 MR. STOVALL: That's one of the disadvantages of being
12 first on the docket.

13 MR. CARROLL: And having to come such a long distance.

14 Q. (By Mr. Carroll:) All right. Mr. Kincheloe, we've
15 presented to the examiner your Exhibit A. Would you please
16 explain what is contained on Exhibit A.

17 A. All right. A is a structure map on the top of the
18 A sand which is in the Morrow section. We'll get into that on
19 cross section here directly. And it's on a scale of one inch
20 equals 660 feet. I thought it would probably go in a roll. I
21 see it isn't today. And it shows the wells in existence and
22 the dry holes which would be the N-1 well in Section 8, Mr.
23 Trainer's well in Section 5. The other wells are gas wells.

24 It also shows our proposed bottom of the
25 sidetracked hole being 660 from the south and east corner of

1 Section 5. The BC cross section, of course, will come along
2 in a minute. And we show there a structural cross section
3 involving the fault between the Oryx Number 1 and the L&B well
4 that was drilled. Structurally, the acreage appears to be on
5 the upside of the fault, appears to be comparable to the Oryx
6 well and also to the Shell well in Section 4.

7 (Applicant's Exhibits Nos. 8 and 9
8 were marked for identification.)

9 Q. You've also prepared an exhibit on the C channel
10 sand; is that correct?

11 A. Yes, sir.

12 Q. And we will call that Exhibit 9. Give me a couple
13 of those.

14 A. All right. You want the --

15 (THEREUPON, a discussion was held off the record.)

16 Q. Would you explain what Exhibit 9 depicts.

17 A. Exhibit 9 is just a structure map on the same scale
18 as on the other exhibit there. It shows the structural at the
19 C level on these surrounding wells. It shows the number one
20 well, which is in the northeast of the -- the northwest of the
21 northeast, Section 9. Number two well in Section 9, which is
22 1650 from the north and west. And then it shows the Trainer
23 well which is 1980 from the east, 660 from the south of
24 Section 5. It shows a fault. And because the C sand appears
25 to be a channel sand, I've depicted the channel as running

1 diagonally across Section 5 to the northwest and the
2 southeast. It misses the Trainer well. It misses the Oryx
3 Number 2 well. The Shell Number 1 well in Section 4 is
4 covered by the channel. And we've run against the fault. We
5 terminate all the geology at the fault if that's really what
6 happens there. We show the location being 660 from the south
7 and east. Based on this map, Mr. Trainer should have
8 approximately 25 feet of gross sand in the C sand, which is a
9 major bay in the channel.

10 Q. Both exhibits then, 8 and 9, show that Mr. Trainer
11 should have a reasonable chance of hitting pay zones by this
12 location?

13 A. By directional drilling.

14 Q. By directional drilling?

15 A. Right.

16 Q. Your next exhibit is a stratigraphic cross section.

17 A. You don't want the other?

18 Q. Why don't we talk about that in just a minute, Mr.
19 Kincheloe.

20 A. All right.

21 (Applicant's Exhibit No. 10 was marked
22 for identification.)

23 Q. Exhibit 10 will be your stratigraphic cross
24 section -- Mr. Kincheloe, if you would, why don't you describe
25 this exhibit, Exhibit 10.

1 A. I can stand. I guess it'll be all right?

2 Q. Certainly.

3 A. Exhibit 10 encompasses the Oryx Number 1 in Section
4 9, Oryx Number 2 in Section 9, L&B Number 1 federal in Section
5 5, and the Southern Union Number 1 Barbara in Section 6, which
6 is not shown on the map, but it's on to the west. The reason
7 that the well in Section 6 is shown, it shows real good sands
8 in A sand, B sand, and C sand of the Morrow section. Those
9 are shown in yellow. You can follow the correlations on the
10 sands directly across all the way across the cross section.
11 Now this map or this cross section has been hung on the Morrow
12 plastics, in other words, flattened on that horizon so that we
13 could see the correlation and be sure that we were talking
14 about the same sand.

15 When you put over 1100 feet of dip in the thing,
16 it's very difficult to follow your correlations. But by
17 putting it on Morrow which is below the faulting, if there is
18 faulting in the area, it's quite easy to follow the sands
19 across. The Oryx Number 1 well has a zone in yellow and about
20 12,670, which shows good porosity, which is shown in orange on
21 the right-hand side of the log there. This is a primary sand
22 zone that Mr. Trainer is interested in finding. It also has a
23 very slight show in the B sand down at about 12,880 to 90,
24 right there. It's a good little sand. It does not produce in
25 the Oryx Number 1, but it is a producer in the Number 2 well.

1 Incidentally, the Oryx Number 1 doesn't produce
2 well on A either. It's strictly a C channel sand. The C
3 channel down there at 13,010 to about 40, you have an
4 excellent development of about 50, 60 feet of sand, good
5 porosity and oil potential for a major 8,900,494 cubic feet of
6 gas. It's been a very fine well. After the drilling of that
7 well, Oryx attempted a second well, which is Oryx Number 2,
8 1650 from the north and west of Section 9 with the idea of
9 encountering the same sand. As you can see, they missed the C
10 sand. There's nothing present there that's productive in the
11 c interval. They found A sand to be split up somewhat but
12 were able to perforate it and potential of a very good well
13 out of the A and B. Now I don't think they got any gas out of
14 that B. They have perforated, but they certainly had a right
15 to go look for it. It could be productive.

16 Moving on to the northwest, the L&B well, in the
17 Morrow, A at about 13,545 about 570. You have the sand, good
18 porosity. The thing was drilled tested with a straddle packer
19 test and a waterline test. It showed excellent pressure and a
20 lot of water. It didn't produce water, but they felt like the
21 well was kicking and make some water. The second test down in
22 the B, you have a good sand. Oh, incidentally, the water
23 saturation in A is about 68 percent. Over in the Oryx Number
24 1 well, water saturation is about 15 percent, a pretty good
25 clue.

1 The B sand in the LB shows nine percent porosity,
2 30 percent saturation. It's from 13,7 about 64 to just right
3 in that interval right there. The sand is not as well
4 developed, not as porous, but it could be a gas producer. It
5 has a very slight show. And, again, in the C zone, down in
6 the bottom there at 13,960, there's no sand present. That is
7 the reason for drawing the limit of the sand that you see on
8 your structure map. In other words, we know it isn't in this
9 well, it isn't in the Oryx Number 2. But it sure as the
10 dickens is over in Section 6 in the Barbara, Southern Union
11 Barbara.

12 That well in the C interval has very little below
13 14,000 feet, so it's about 30, 40 feet of gross sand. And it
14 has orange painted down there on the right which indicates
15 that it should be gas productive. Water saturation is 42
16 percent in that well, that interval. The B sand in there
17 looks the best of any of them to me. It has from 14, oh,
18 about 640 to 90, shows good sand, good porosity, over ten
19 porosity, with a 30 percent water saturation. That one is a
20 maybe. He might make it. The A sand in that well is nine
21 percent porosity, 60 percent water saturation, probably would
22 not produce gas. But the sand in this one that we're really
23 interested in, the C zone, does show up, shows that the
24 channel comes back over in that area. I believe that's it.

25 Q. You've also prepared a structural cross section,

1 have you not, of this area?

2 A. Yes, sir, I have.

3 (Applicant's Exhibit No. 11 was marked
4 for identification.)

5 Q. Exhibit 11. Would you describe Exhibit 11 for the
6 commission.

7 A. Exhibit 11 encompasses only two wells, the Oryx
8 Number 1 and the L&B federal, one in Section 9 and one in
9 Section 5. The scale is reduced because we did not have one
10 that -- it's way too long. This one's too long, but we can
11 work with it anyway. It shows all the formations from the
12 middle bone springs down to TD on both wells. The cross
13 section shows that the trend of the sidetrack hole starting at
14 9,000 kicked out and where it will land up. At the bottom
15 there on the L&B well, that's 1320 feet east of the surface
16 location of that well. This cross section was made with a
17 fault shown with the horizon being basically flat until you
18 intersect the fault and then dropping off sharply to the west.

19 The fault comes up into the Atoka, probably not
20 above that. It probably dies out there. So above that, all
21 you have is draped over, and it's on the structural contours.
22 It shows the A sand and the C sand on the Oryx well running
23 over and intersecting the fault. They will come in about, oh,
24 about 13,000 on this Morrow C sand if our picture is correct
25 and we intersect the sand there. So we're expecting to be in

1 the channel and structurally high enough to produce gas
2 whenever we encounter it at that bottom. Anything else?

3 Q. (By Mr. Carroll:) Mr. Kincheloe, based upon your
4 experience as a geologist and on the geological work that you
5 have performed and presented here to the commission in the
6 last four exhibits, do you feel that the location that Mr.
7 Trainer is wishing to get permission to bottom a well on, is
8 that a reasonably productive location, at least based in your
9 experience and the geological work you've done?

10 A. I feel that it is a good location.

11 Q. Now as an expert, a geologist, do you feel that the
12 granting of this application would be in the interests of
13 preventing waste, Mr. Kincheloe?

14 A. Yes, sir, I do. I feel like that there's gas
15 present in Section 5 and that Mr. Trainer, who has hold of the
16 lease, should be entitled to it.

17 Q. And do you feel that if this well were not given
18 permission to be drilled that there would be hydrocarbons, gas
19 in particular, that might not be produced?

20 A. Possibly.

21 Q. Now, Mr. Kincheloe, thus far, we have presented a
22 geological picture based upon a picture that has been
23 previously presented to the commission and accepted by the
24 commission, principally by the Oryx application. Is this area
25 susceptible to more than one geological interpretation?

1 A. Yes, it is.

2 Q. And you have prepared another exhibit, have you
3 not, to help illustrate another interpretation of that?

4 A. Yes, sir.

5 Q. Give me some of those.

6 A. A structure map on the C sand without the fault,
7 with a fault trace shown on the map but not considered in
8 contouring.

9 MR. CARROLL: I will mark that as Exhibit 12.

10 (Applicant's Exhibit No. 12 was marked
11 for identification.)

12 (THEREUPON, a discussion was held off the record.)

13 Q. Mr. Kincheloe, would you describe Exhibit 12. And
14 if you would, just go ahead and, one, describe it and also
15 give your reasons why this is also a reasonable interpretation
16 of the geology that you have discovered out there in this
17 field.

18 A. All right. The map on the right-hand side is
19 essentially the same as it is on the other exhibit in the C
20 channel. However, on the west side, I've chosen to show
21 depth. And I was partially controlled by the well in Section
22 6, which at the top of the C comes in at a minus 11,200. The
23 well in Section 5 -- that's the Barbara well in C in Section
24 6. The well in 5, the L&B federal, has a datum of a minus
25 10,260. When you come over to the Oryx Number 2, it's 9412 on

1 the top of the C marker. If you put a fault in there, the way
2 we've shown on the other map, then there isn't any real steep
3 dip. Everything should fall flatly. But whenever you
4 consider the well in Section 6 and the well in Section 5, the
5 dip seems to be very gentle. In other words, it just
6 continues at the same rate from about the east line of Section
7 5 to Section 6.

8 So if you put the map on dip across there, our
9 location, 660 from the south and east, will be all right.
10 There is no fault there. We still expect to have 25 to 30
11 feet of sand in the channel, and the channel extends on to the
12 northwest. I think it's a reasonable interpretation. The
13 fault obviously was put here by Oryx on information that they
14 had. I'm not privy to that information. So I wanted to show
15 what could happen if we did have a fault there.

16 Q. Now this particular Exhibit 12, is it drawn with
17 all of information that's been available to you from --

18 A. Yes, sir.

19 Q. -- past previous drilling and what have you?

20 A. Right.

21 Q. And you feel that this is as reasonable an
22 interpretation as that presented by the Oryx exhibit?

23 A. Yes, sir.

24 Q. With respect to either one of these exhibits, do
25 you have an opinion as to whether or not the east half of this

1 Section 5 should be considered as productive if we were
2 allowed to drill the well at the location that Mr. Trainer is
3 seeking?

4 A. I think it would be productive.

5 Q. And that this well would have an opportunity or a
6 chance to drain the east half of Section 5?

7 A. Right.

8 Q. Now with respect to the granting of this
9 application, do you feel that should this application be
10 granted by the commission that it would protect correlative
11 rights or be in the interests of that?

12 A. Yes, sir.

13 Q. This would allow Mr. Trainer to produce the
14 hydrocarbons then underlying his tract, the east half of
15 Section 5?

16 A. Yes.

17 Q. Is there anything further, Mr. Kincheloe, that you
18 would like to add with respect to Mr. Trainer's application
19 before the commission?

20 A. Well, I believe that if Mr. Trainer gets this well
21 and makes a good well that possibly he will be willing to
22 drill another one further out to the west, even on down dip.

23 Q. I see.

24 A. Because I feel that we'll be opening up a new area
25 and we'll be finding more gas.

1 MR. CARROLL: At this time, Mr. Examiner, I would move
2 admission of Mr. Trainer's Exhibits 1 through 12.

3 EXAMINER MORROW: Exhibits 1 through 12 are admitted into
4 evidence.

5 (Applicant's Exhibits Nos. 1 through 12
6 were admitted into evidence.)

7 MR. CARROLL: And I would pass the witness to you, Mr.
8 Examiner, at this time.

9 EXAMINATION

10 BY EXAMINER MORROW:

11 Q. Mr. Kincheloe, the well in Section 4, what kind of
12 well did that make?

13 A. That was a Morrow well. It produced A, B and C.

14 Q. Do you have any idea what the potential was for it
15 to produce?

16 A. Well, produced some perforations 12,886 to 13,011,
17 initial calculated potential, 4,900,000 cubic feet a day.

18 Q. And what in the west half of 9, the Number 2 Oryx
19 well, you said it made a good well?

20 A. Yes, sir. Oryx Number 2, potential for 23,855,000
21 cubic feet, and its perforation at 12,725 to 12,922.

22 Q. So just based on that, it's a better well than
23 number 1 even though it didn't have C sand?

24 A. It's got a better potential, but it's a long ways
25 from being a better well, I think. I think it just, you know,

1 a lot more permeability at the time, it would have been.

2 Q. Yes, sir. The well in Section 6, was it ever
3 tested in the Morrow sand?

4 A. No, sir. Well --

5 Q. I wonder why.

6 A. Well 6?

7 Q. In Section 6?

8 A. Yes, sir, had a test in the bone springs and no
9 test in the Morrow at all. Good potential in the bone springs
10 for a very small well.

11 Q. I got the idea on your last exhibit that a location
12 further north might be -- did you consider a location further
13 north because of the trend of the C sand?

14 A. Yeah, it would be possible all right. But this was
15 a location Mr. Trainer selected, and it certainly seemed like
16 it's in a good spot. I feel like that his idea of being close
17 to production was not bad. In other words, he liked to be on
18 the southern end of that thing even further south than we
19 were, but we ran into a little opposition. At 660, it
20 appeared to be all right, so he's willing to drill there.

21 Q. Have you made an estimate of how much gas will be
22 recovered by this well?

23 A. No, sir, I haven't made an estimate of it, but I
24 would think it would be an average Morrow well.

25 Q. What would that be?

1 A. Oh, a billion, billion and a half, something like
2 that.

3 EXAMINER MORROW: Have you got anything?

4 MR. STOVALL: No.

5 EXAMINER MORROW: That's all we have for this witness.

6 MR. CARROLL: Mr. Examiner, I think that would conclude
7 our case then.

8 EXAMINER MORROW: Case number 10137 will be taken under
9 advisement.

10 (The foregoing hearing was adjourned at the approximate
11 hour of 9:15 a.m.)

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1 STATE OF NEW MEXICO)
2 COUNTY OF SANTA FE) ss.

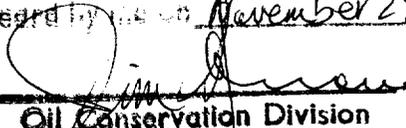
3 REPORTER'S CERTIFICATE

4
5
6 I, DEBORAH LAVINE, RPR, a Certified Shorthand
7 Reporter and Notary Public, DO HEREBY CERTIFY that I
8 stenographically reported these proceedings before the Oil
9 Conservation Division; and that the foregoing is a true,
10 complete and accurate transcript of the proceedings of said
11 hearing as appears from my stenographic notes so taken and
12 transcribed under my personal supervision.

13 I FURTHER CERTIFY that I am not related to nor
14 employed by any of the parties hereto and have no interest in
15 the outcome hereof.

16 DATED at Santa Fe, New Mexico, this 21st of
17 December, 1990.

I do hereby certify that the foregoing is
a complete record of the proceedings in
the Examiner's report of Case No. 10137,
heard by me on November 28, 1990.

20  Examiner
Oil Conservation Division 

21
22 My Commission Expires:
23 August 6th, 1993

DEBORAH LAVINE, RPR
Certified Shorthand Reporter
CSR No. 252, Notary Public

NEW MEXICO OIL CONSERVATION COMMISSION

EXAMINER HEARING

SANTA FE, NEW MEXICO

Hearing Date NOVEMBER 28, 1990 Time: 8:15 A.M.

NAME	REPRESENTING	LOCATION
D.W. Trainor	Self	5265 W. Main Street, Santa Fe
Dalton Kinschelm	Trainor	859 Petro Bldg Roswell
William F. Train	Campbell and Clark P.A.	Santa Fe
Mark Nearberg	Nearberg Producing Co	Midland
Jerry Elger	Nearberg Producing Co	Midland
Paul Cooter	Kodey Law Firm	Santa Fe
KEITH LOGAN	BTA OIL PRODUCERS	MIDLAND
Maurice Trammner	Byram Co.	Santa Fe
Ernest A. Canolf	House Canon, Sloan & Co.	Artesia
David R. Vandiver	Fisk & Vandiver	Artesia
Robert Bullock	YATES PETROLEUM CORP.	Artesia
W. Gary Pease	Machtgans Anderson, P.A.	Santa Fe
Gene Lee	Kellerman Kellerman & Co. P.A.	Santa Fe

NEW MEXICO OIL CONSERVATION COMMISSION

EXAMINER HEARINGSANTA FE, NEW MEXICOHearing Date NOVEMBER 28, 1990 Time: 8:15 A.M.

NAME	REPRESENTING	LOCATION
Chip Ghy Pam McWhort	Yates Yates	Artesia Artesia
DAVE BONEAU	YATES PETROLEUM	ARTESIA, NM
Junt Richardson	Yates Petroleum	ARTESIA, NM
J. Broom	TH MC Elwan	Santa Fe
4. Mike McGinley Phil Moore	HADSON GAS SYSTEMS Plains Radio Petroleum Co.	DALLAS TX Amarillo, TX.