

NEW MEXICO OIL CONSERVATION COMMISSION

EXAMINER HEARING

SANTA FE, NEW MEXICO

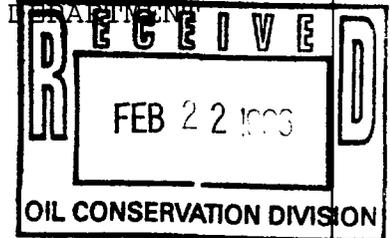
Hearing Date FEBRUARY 8, 1996 Time: 8:15 A.M.

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STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



IN THE MATTER OF THE HEARING CALLED BY)
THE OIL CONSERVATION DIVISION FOR THE)
PURPOSE OF CONSIDERING:)

APPLICATION OF OXY USA, INC., FOR AN)
UNORTHODOX GAS WELL LOCATION,)
EDDY COUNTY, NEW MEXICO)

CASE NOS. 11,454

APPLICATION OF OXY USA, INC., FOR AN)
UNORTHODOX GAS WELL LOCATION,)
EDDY COUNTY, NEW MEXICO)

11,458

(Consolidated)

REPORTER'S TRANSCRIPT OF PROCEEDINGS

EXAMINER HEARING

ORIGINAL

BEFORE: MICHAEL E. STOGNER, Hearing Examiner

February 8th, 1996

Santa Fe, New Mexico

This matter came on for hearing before the New Mexico Oil Conservation Division, MICHAEL E. STOGNER, Hearing Examiner, on Thursday, February 8th, 1996, at the New Mexico Energy, Minerals and Natural Resources Department, Porter Hall, 2040 South Pacheco, Santa Fe, New Mexico, Steven T. Brenner, Certified Court Reporter No. 7 for the State of New Mexico.

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February 8th, 1996
 Examiner Hearing
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A P P E A R A N C E S

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By: W. THOMAS KELLAHIN

* * *

1 WHEREUPON, the following proceedings were had at
2 8:18 a.m.:

3 EXAMINER STOGNER: This hearing will come to
4 order for Docket Number 4-96. Please note today's date,
5 February 8th, 1996. I'm Michael E. Stogner, appointed
6 Hearing Examiner for today's cases.

7 At this time I will call Case Number 11,458.

8 MR. CARROLL: Application of Oxy USA, Inc., for
9 an unorthodox gas well location, Eddy County, New Mexico.

10 EXAMINER STOGNER: Call for appearances.

11 MR. KELLAHIN: Mr. Examiner, I'm Tom Kellahin of
12 the Santa Fe law firm of Kellahin and Kellahin, appearing
13 on behalf of the Applicant in this case.

14 In addition, Mr. Examiner, we would like your
15 permission to consolidate for purposes of testimony this
16 case with Case 11,454, which appears as the third case on
17 the docket. The first case is the south half of Section
18 33; the second case is in the west half of Section 4, just
19 to the south. They involve similar geologic evidence.

20 While we have separate exhibits in both sets of
21 cases for you to consider, I think it might expedite the
22 hearing to let the technical witnesses present their
23 testimony in a consolidated manner.

24 EXAMINER STOGNER: Okay, at this time I'll call
25 Case Number 11,454.

1 MR. CARROLL: Application of Oxy USA, Inc., for
2 an unorthodox gas well location, Eddy County, New Mexico.

3 EXAMINER STOGNER: Other than Mr. Kellahin, are
4 there any appearances in this matter?

5 Okay, being none, these two cases will be
6 consolidated for purposes of testimony.

7 Mr. Kellahin, you have how many witnesses?

8 MR. KELLAHIN: Three witnesses to be sworn, Mr.
9 Examiner.

10 EXAMINER STOGNER: Would the witnesses please
11 stand at this time to be sworn?

12 (Thereupon, the witnesses were sworn.)

13 EXAMINER STOGNER: Mr. Kellahin?

14 MR. KELLAHIN: Thank you, Mr. Examiner.

15 We've distributed two sets of exhibits. The
16 first package is Case 11,458, and we'll start with that
17 presentation.

18 The first witness is Bob Doty. Mr. Doty spells
19 his name D-o-t-y. He's a petroleum geologist residing in
20 Midland.

21 I'd like to present his geologic conclusions with
22 regards to this well. And then as we go through it, I will
23 show you where the second well is in relation to the first,
24 and then we'll complete his whole testimony with regards to
25 both cases.

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ROBERT DOTY,

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

DIRECT EXAMINATION

BY MR. KELLAHIN:

Q. For the record, Mr. Doty, would you please state your name and occupation?

A. My name is Robert Doty. I'm a petroleum geologist for Oxy USA.

Q. On prior occasions have you testified before the Division and qualified as an expert in the field of petroleum geology?

A. Yes, sir.

Q. Pursuant to your employment, have you worked with Mr. Mike Kovarik, petroleum engineer with Oxy, as a team to develop opportunities for potential production in this section as well as the section to the south, Section 4?

A. Yes, sir.

Q. As a result of that study, do you now have certain conclusions and recommendations for the Examiner?

A. Yes, sir.

Q. Do the geologic work product we're about to see represent your work effort?

A. Yes, sir.

Q. And these geologic displays, then, are yours?

1 A. Yes, sir.

2 MR. KELLAHIN: We tender Mr. Doty as an expert
3 petroleum geologist.

4 EXAMINER STOGNER: Mr. Doty is so qualified.

5 Q. (By Mr. Kellahin) If you'll turn, Mr. Doty, to
6 what we've marked as Exhibit 1 in Case 11,458, let's take a
7 moment and orient the Examiner as to what he's about to
8 see.

9 A. Yes, sir, Exhibit 1 is a zone of production map
10 which shows which wells are produced from which zones in
11 the area of our proposed location.

12 There's a color code which shows the producing
13 zones. Also posted beneath the active wells is the current
14 zone that's producing from these wells. You'll note that
15 wells that have nothing posted underneath are no longer
16 active.

17 Also, our proposed location is posted in the
18 southeast quarter of Section 33. It's the Oxy Federal
19 33-1, located 510 from the south line and 660 from the east
20 line.

21 Also, the orthodox window for deep gas is the
22 white area inside the shaded for our south-half spacing
23 unit for this well.

24 If I may just acquaint you with the active deep
25 gas well surrounding and contiguous to this south-half

1 spacing unit, there are only two active wells with
2 contiguous spacing units associated with this well.

3 The west half of Section 34 is a standup Morrow
4 spacing unit, producing from the Parker and Parsley ARCO
5 Fed Number 1 in the northwest quarter. That's a well
6 that's near its depletion. It's currently making about 8
7 to 10 MCF a day.

8 Q. That would be a Winchester-Morrow gas well; is
9 that --

10 A. Yes, sir. Yes, sir. And in the south half of
11 Section 32, in the southeast quarter, the Southland Royalty
12 State A 32 is still active in the Atoka, Angell Ranch
13 Atoka-Morrow. Its current rate, again, is around 25 MCF a
14 day.

15 The point is, the deep location -- the deep gas
16 reservoirs do not control the location for the unorthodox
17 request. The Bone Spring location does. Our request today
18 is for an unorthodox location for a deep gas Morrow-Atoka-
19 Strawn-Wolfcamp.

20 Q. Let's refresh the Examiner's recollection with
21 regards to the Bone Springs. This is the Old Millman
22 Ranch-Bone Springs Associated Pool?

23 A. Yes, sir, the purple wells, primarily in Section
24 3 and 4, are current Bone Spring producers. Our location
25 is orthodox for the Bone Spring, however we're on the very

1 edge of the pool and we feel like the risks are very severe
2 for the Bone Spring, and we're unable to support a stand-
3 alone Bone Spring location from an economic justification
4 standpoint.

5 Also, we'll be able to show that we're unable to
6 justify a stand-alone deep location. So our rationale here
7 is to package the Bone Spring and deep location to allow us
8 to recover those reserves.

9 Q. When we look at the Old Millman Ranch, what are
10 the spacing for gas wells and oil wells that currently
11 employ?

12 A. Oil wells are on 40-acre spacing, gas wells are
13 on 80.

14 Q. And a standard well location, then, would be
15 within 150 feet of the center of a 40-acre tract?

16 A. Yes, sir.

17 Q. So that the Examiner will see the relationship of
18 this well to the well that's described in Case 11,454, will
19 you use this display to show us where we find the well
20 that's the subject of the second case?

21 A. Yes, sir. You'll also note in Section 4 there's
22 a well posted, the Oxy Federal 4-1.

23 This is our -- Also we're requesting an
24 unorthodox location for the deep gas in this -- for this
25 well also. This will be a standup west-half 320.

1 The contiguous active deep-gas 320s, again, the
2 south half of 32, as I've described, our 25-MCF-a-day well
3 out of the Atoka-Morrow.

4 To the southwest, the north half of 8 has an
5 active Morrow well. The Mewbourne Federal V Number 1 is
6 Burton Flat-Morrow, and it's a fairly recent well. It's in
7 the northeast quarter. It makes around 600 MCF a day
8 currently.

9 To the south in Section 9 are two standup 320s.
10 The western one is active in the Morrow, the OXY Government
11 AB Number 4, and the eastern one is active in the Wolfcamp,
12 in North Burton Flat-Wolfcamp. That's the Chi USA 9 Number
13 1.

14 So those four contiguous 320s are active in the
15 deep gas. As with the Section 33 well, the Bone Spring
16 controls the location here.

17 Q. When we look at the well in Section 4, the Oxy 4
18 Federal 1 well, that is unorthodox only for the deep gas,
19 and it's unorthodox because it's 150 feet farther east in
20 its spacing unit than permitted under the current rules?

21 A. Yes, sir.

22 Q. All right. Let's go to the geology now, Mr.
23 Doty. If you'll turn to what we've marked as Exhibit
24 Number 2, let's find that display, unfold it, and have you
25 identify it.

1 You've testified, Mr. Doty, that the ultimate
2 conclusion that you and Mr. Kovarik have reached is that
3 it's necessary to package the various deep gas intervals
4 with the Bone Springs in order to justify a well in this
5 spacing unit; is that not true?

6 A. Yes, sir.

7 Q. Let's look first at your interpretation of the
8 Bone Springs.

9 A. Yes, sir. Exhibit Number 2 is a map of the Old
10 Millman Ranch-Bone Spring Pool. The colors represent net
11 pay with a 30-foot contour interval. The blue area on the
12 map has net pay from zero to 30 feet, the pinkish-red area
13 is from 30 to 60, and then on up in 30-foot increments.

14 Also shown is the structure of the first Bone
15 Spring sandstone in black, with a 100-foot contour
16 interval. The significance of the structure here is that
17 it's allowed me to estimate the gas-oil contact in the
18 field, which is noted with the red dashed line for the west
19 half of Section 3, and it shows that both our Federal 4-1
20 and Federal 33-1 are in the gas cap of this pool.

21 The green wells are Bone Spring locations. And
22 from experience in the pool, we have concluded that 30-foot
23 net pay is a cutoff for an economic completion in the Bone
24 Spring. Wells completed with less than 30 feet or
25 attempted completions with less than 30 feet have not

1 reached payout, they're not -- you can't economically
2 justify a well.

3 Q. To reach the net pay of 30 feet, what porosity or
4 other cutoff value did you use?

5 A. 12-percent porosity cutoff.

6 You'll note that our Oxy 33 Federal Number 1 is
7 very close to the 30-foot net pay cutoff. I have some well
8 control. The well in the southwest quarter of Section 34
9 has 21 feet of pay and has proven to be a very poor
10 producer.

11 Q. If you're looking for the optimum opportunity in
12 the south half of Section 3 in which to locate a well to
13 test the Bone Springs, where would you put that well?

14 A. I would put the well at the proposed location,
15 510 from the south line, 660 from the east.

16 Q. Will that give you your best opportunity to
17 recover any gas in the Bone Springs that might be
18 recoverable under this spacing unit?

19 A. Yes, sir.

20 Q. Can you achieve that at any other standard -- at
21 a standard location at any other point in the south half of
22 33?

23 A. Not for a standard location for the deep zones at
24 all, and really not for another standard location for the
25 Bone Spring.

1 Q. All right. You said on Exhibit 2 you have a
2 line of cross-section, B-B'?

3 A. Yes.

4 Q. Let's turn now to the actual cross-section.

5 A. Yes, sir.

6 Q. It's marked as Exhibit Number 3, is it not?

7 A. That's correct. Cross-section B-B', or Exhibit
8 3, is a structural cross-section, and the first Bone Spring
9 sandstone reservoir for Old Millman Ranch is shown in
10 yellow.

11 The curves that are shown on the logs, the left
12 track is the gamma-ray, the right track is a calculated
13 porosity log with porosity greater than 12 percent colored
14 in red.

15 You'll note that at the southern location, the B'
16 location, which is the right well on the cross-section,
17 this is the Chi Winchester Federal Number 1. This has been
18 an excellent well in the Bone Spring. It has over 100 feet
19 of net pay. It's cum'd greater than two billion cubic foot
20 of gas, and its current rate is almost a million a day.

21 Our -- By the way, that well is on the same, both
22 B-B' and A-A' for both cases.

23 The next location on the B-B' is our proposed
24 well, and the northernmost location is the Penroc ARCO
25 Federal Number 1, which had only eight feet of net pay.

1 The zone was not tested, and based on our cutoffs it
2 wouldn't be productive. In fact, the well is plugged.

3 So you can see that our location is in between
4 the excellent pay and no pay. And based on that conclusion
5 we feel like it's a very risky location, and our reservoir
6 engineer will show our concerns on the economic
7 justification for a stand-alone Bone Spring.

8 Q. Give us a verbal picture of the trapping
9 mechanism in the Bone Springs reservoir.

10 A. Yes, sir. The Bone Spring reservoir is a deep-
11 water sandstone, and it's deposited from the west to the
12 east. It pinches out to the west, into a tight carbonate,
13 and porosity distribution in this reservoir is fairly
14 localized. I don't have an explanation of why the porosity
15 is developed, but when it is developed it's developed over
16 a fairly decent area, and it's very mappable in its extent.

17 It's very clear, however, that there are limits
18 to the field. So the updip pinchout is both a pinchout of
19 the sandstone and of the porosity, both.

20 Q. Mr. Doty, let's turn to your investigation of
21 deeper gas intervals, and if you'll turn now to Exhibit
22 Number 4, let's start your discussion with your examination
23 of the Morrow -- You've finished that cross-section, have
24 you not?

25 A. That's B-B'. Do you want to talk about A-A' at

1 all? For the other case?

2 Q. For the other case? If you'd like to do so,
3 let's do that now.

4 A. Okay.

5 Q. So the record is clear, we're turning to 11,454,
6 and we're going to look at the cross-section that's labeled
7 as Exhibit Number 3.

8 A. Yes, sir, I just might point out that the well on
9 the right, again, is that same Chi Winchester Federal well.
10 Again in the center is our proposed 4-1 location, and in
11 this case the well on the western side or on the left side
12 is the Strata Aquila Federal Number 1, which did attempt a
13 Bone Spring location. It had about nine feet of net pay in
14 it.

15 And this is typical when you get very close to
16 the pinchout. It was able to make a completion, but it's
17 only produced 16 million cubic feet of gas, and it's
18 currently TA'd.

19 So again, we're very close to the pinchout line
20 on that Federal 4-1 location also.

21 Q. As we move to consider the deep gas
22 opportunities, the Examiner will find in each exhibit
23 package that he's looking at the same exhibits for each
24 case, with the exception that you have identified the well
25 location that's relevant to that case?

1 A. Yes, sir.

2 Q. All right, let's start, then, with Exhibit 4 from
3 Case 11,458.

4 A. Yes, sir. Exhibit 4 is a cumulative production
5 map for the Morrow. Posted beneath each well is the
6 cumulative production for Morrow gas in millions of cubic
7 feet. Also, there's a bubble map which has -- again
8 reflecting the cumulative production, so the larger size of
9 the bubbles are the greater volumes of gas.

10 What I've done is, I've annotated the major
11 controls for the Morrow production in this subregional
12 area. You'll note the blue arrows in the northern part of
13 the area, which are labeled "Morrow Channel Trends". These
14 are the main producing lower Morrow "B" channel trends,
15 which -- basically, that's the paymaker sand for this
16 northern part of the area.

17 To the south, that large producing area going
18 from north to south is a fairly well known structural trend
19 which I've called the Carlsbad anticline. That's that
20 yellow annotated area. And that's a major structural
21 control for -- There's also quite a bit more sand in the
22 southern part.

23 You'll note the Oxy Federal 33-1 and also the
24 4-1 is in between two of these producing Morrow channel
25 trends, and there is Morrow production in between these

1 channel trends but they're from more discontinuous sands.
2 They're marginal in nature due to the discontinuities of
3 the sands themselves.

4 And what I've done is, I've identified an area of
5 investigation for our reservoir engineer for the purpose of
6 reserve estimates that -- I've examined the wells that do
7 not produce from the main trend but produce from some of
8 these scattered trends. The presence or absence of some of
9 these sands, I had a very difficult time mapping them and
10 being able to predict them. They're just too thin, too
11 discontinuous.

12 And we've labeled that area of investigation,
13 just outlined this area with that dashed green line and
14 called it deep gas scattered reserve potential. This is
15 not any kind of estimated productive limit, it's just the
16 area that we looked at the kind -- we bundled wells that
17 produce from similar kinds of discontinuous sands, we can
18 use for a production analog.

19 Q. As to any of the Morrow sands, were you able to
20 construct an isopach for which you had confidence within
21 this reserve potential area outlined with the dashed green
22 line?

23 A. No, sir, I have several failed attempts. They're
24 just too thin and discontinuous.

25 Q. And could you do an isopach on any of the other

1 deep gas zones that we're about to examine?

2 A. No, the Atoka, Morrow and Wolfcamp in this
3 particular area that we're in.

4 Q. When we're looking at the Morrow and we're
5 looking at the major production of the Morrow within the
6 area on this map, which portion of the Morrow has been
7 determined to be the most productive?

8 A. The lower Morrow "B" in the northern part where
9 the blue arrows are. The southern part, structural
10 control, all parts of the Morrow are productive.

11 Q. Do you know the pool names for the Morrow that
12 are involved in this immediate vicinity?

13 A. Burton Flat and Winchester, Angell Ranch,
14 primarily

15 Q. As I understand it, if you take the middle Morrow
16 trend in the center, it runs northwest to southeast --

17 A. Yes, sir.

18 Q. -- and then you move south to the next Morrow
19 channel trend and it has a similar orientation.

20 Within the reserve potential area, there's an
21 area of investigation where you find that those sand
22 members are outside of the trend?

23 A. Yes, sir, the main paymaker is absent in those
24 areas. It's shaled out.

25 Q. All right, sir, let's turn to Exhibit Number 5

1 and have you identify and describe that display.

2 A. Yes, sir, Exhibit Number 5 is a similar
3 cumulative production map, in this case for the Atoka. And
4 you'll also see that same area of investigation is marked.
5 And there's Atoka production throughout here. In this
6 case, the Atoka reservoir is two to four feet thick, very
7 discontinuous and impractical to map at the current well
8 spacing.

9 Again, we have bundled wells together that we
10 feel like will likely -- Our rationale here, our rationale
11 is that if we can identify an area outside of the main
12 producing trends where really luck is the main --
13 serendipity is the main control on production due to the
14 reservoir discontinuities, any additional well drilled in
15 that area will likely encounter the same kind of gas
16 volumes summed up in the four different zones.

17 Q. Let me direct your attention to the Strawn map,
18 which is Exhibit Number 6.

19 A. Yes, sir, likewise with the Strawn. The Strawn
20 produces from carbonate buildups, which are of mappable
21 extent. You can map the carbonate buildups.

22 The porosity within those carbonate buildups,
23 however, is very erratic, and we're left with the same hit-
24 or-miss reserve potential.

25 Q. All right, sir, and then finally the Wolfcamp

1 map. Let's Turn to Exhibit 7 and have you discuss that.

2 A. Also with the Wolfcamp, you'll notice the big red
3 area in the center of the map. That's the North Burton
4 Flat-Wolfcamp Pool, and that's a well understood Wolfcamp
5 pool with specific controls on deposition.

6 But we're out of that, and we're into the area of
7 discontinuous Wolfcamp buildups that are hit or miss on
8 their producibility.

9 Q. Summarize for us, Mr. Doty, your geologic
10 conclusion.

11 A. Yes, sir. We're unable to justify a stand-alone
12 Bone Spring location on our lease, due to our proximity to
13 the pinchout.

14 We're also unable to justify a stand-alone deep
15 gas location on our lease. We're out of the area of the
16 main paymakers for the deep gas zones, but we're in the
17 area where there can be gas recovered but it's just of very
18 scattered marginal nature.

19 We can, however, justify combination Bone Spring
20 and deep gas location, but only on a location which is
21 geologically best suited for the Bone Spring, which in this
22 case for both these wells is orthodox for the Bone Spring,
23 but also on both these wells is unorthodox for the deep
24 gas.

25 Q. If the Division approves your Application on

1 behalf of your company, Mr. Doty, would it provide an
2 opportunity for Oxy to recover potential gas reserves that
3 it might not otherwise recover in the spacing unit?

4 A. Yes, sir.

5 Q. Do you see any opportunity that you would impair
6 the correlative rights of other offsetting interest owners
7 or operators adjacent to your location?

8 A. No, sir.

9 Q. Why not?

10 A. There's no active existing deep wells that we
11 would even encroach on at all.

12 Also, there's reserves there that if -- no one
13 can drill for unless you can package it for the shallow.
14 So if we're unable to drill these wells, nothing happens
15 and no additional gas on either side of the lease line is
16 recovered.

17 MR. KELLAHIN: That concludes my examination of
18 Mr. Doty.

19 We move the introduction of his Exhibits 1
20 through 7 in each of the two cases.

21 EXAMINER STOGNER: Exhibits 1 through 7 will be
22 admitted into evidence at this time.

23 EXAMINATION

24 BY EXAMINER STOGNER:

25 Q. In referring to Exhibit Number 2 that shows your

1 Bone Springs structure --

2 A. Yes, sir.

3 Q. -- on the well in green or Bone Springs producers
4 or Bone Springs production; is that correct?

5 A. Yes, sir, these are wells that have completed in
6 the Bone Spring. In some instances, there's no volumes
7 that have ever been produced, but they did report an
8 initial potential.

9 Q. And looking at the one well in the northeast
10 quarter of Section 4, it showed about 116 feet of net pay?

11 A. Yes, sir.

12 Q. Is that well still producing?

13 A. Yes, sir. Its current rate is around a million a
14 day.

15 Q. And how about the wells over on the western side
16 of 4?

17 A. No, sir, neither of those wells are producing.

18 Q. Now, the wells that you show are in the
19 perimeter, are in the red perimeter of your structure, are
20 any of those wells still commercial?

21 A. Yes, sir, all of them are.

22 Q. All of them? Okay.

23 A. Yes, sir.

24 Q. So that's essentially your cutoff in this
25 instance?

1 A. Yes, sir.

2 Q. Now, is this pool on 80-acre or 40-acre spacing?

3 A. It's 40-acre for oil and 80-acre for gas.

4 Q. And you are expecting to hit gas?

5 A. Yes, sir.

6 Q. I'm assuming that the wells in the yellow portion
7 of the structure are gas wells?

8 A. On the western portion of -- west of the dashed
9 gas-oil contact, they are, yes, sir. That yellow portion
10 east of that gas-oil contact are oil wells.

11 The yellow is a maximum greater than 120 feet of
12 net pay color.

13 Q. In referring to Exhibit Number 1, in the south
14 half of Section 33 -- this is the same proration unit that
15 you're proposing in Case Number 11,458 -- there was an old
16 Penroc oil well, the 1 ARCO Federal?

17 A. Yes, sir.

18 Q. And that had production from which zone?

19 A. From the Atoka.

20 Q. Of did they just test the Atoka?

21 A. No, sir, it produced from the Atoka, 800 million,
22 thereabouts. It's currently plugged.

23 Q. Do you know how long that well produced?

24 A. No, sir, I don't.

25 Q. Did that well also test the other zones from the

1 Morrow to the Wolfcamp?

2 A. I don't recall. It did penetrate the Morrow.

3 EXAMINER STOGNER: I have no other questions of
4 this witness at this time.

5 MR. KELLAHIN: Mr. Examiner, our next witness is
6 Mike Kovarik. He spells his last name K-o-v-a-r-i-k.

7 MICHAEL KOVARIK,
8 the witness herein, after having been first duly sworn upon
9 his oath, was examined and testified as follows:

10 DIRECT EXAMINATION

11 BY MR. KELLAHIN:

12 Q. Mr. Kovarik, for the record, would you please
13 state your name and occupation?

14 A. My name is Michael Kovarik. I'm a reservoir
15 engineer with Oxy USA.

16 Q. And you reside in Midland, Texas, do you not,
17 sir?

18 A. Yes, I do.

19 Q. On prior occasions, Mr. Kovarik, have you
20 testified before the Oil Conservation Division and
21 qualified as an expert in the field of petroleum
22 engineering?

23 A. Yes, I have.

24 Q. In addition, do you have within your company
25 special expertise on evaluating the economics of wells with

1 regards to their potential profitability?

2 A. Yes, I do. I was employed as a reserves
3 evaluation analyst in Tulsa for approximately eight and a
4 half years where we kept track of company reserves for SEC
5 reporting and government -- and financial reporting
6 purposes, and have also done sales and acquisition
7 analysis.

8 Q. Have you applied that specialized expertise to
9 analyzing the opportunity to drill a well by your company
10 in each of these two cases?

11 A. Yes, I have.

12 Q. As part of that analysis, have you come to
13 certain conclusions and recommendations for the Examiner?

14 A. Yes, I have calculated reserves for Bone Springs
15 and deep potential in the wells in question.

16 Q. Will that be true on each of the two cases?

17 A. Yes, it is.

18 Q. And as we go through the exhibits for the first
19 case, you will follow a similar methodology in the second
20 case?

21 A. Yes.

22 Q. And when we discuss with the Examiner the ranking
23 of categories of risk with regards to this prospect, you
24 have references that authenticate the method of risk you've
25 used?

1 A. Yes, I do.

2 MR. KELLAHIN: We tender Mr. Kovarik as an expert
3 petroleum engineer.

4 EXAMINER STOGNER: Mr. Kovarik is so qualified.

5 Q. (By Mr. Kellahin) Let's turn, sir, to Exhibit 8
6 in Case 11,458 and look at the data sheet that begins to
7 start the process by which you come to your ultimate
8 conclusion.

9 A. This exhibit is primarily for information
10 purposes. It lists the pools and reservoirs in the -- If
11 we could refer to one of Mr. Doty's exhibits, please.

12 Q. Yes, sir, which one would you like to use?

13 A. Let's look at Exhibit Number 4.

14 Q. This is the Morrow cum gas map that we started
15 the deep gas discussion with, Mr. Kovarik, is that the one
16 you have?

17 A. Yes.

18 Q. All right, sir.

19 A. The production and statistics on this -- on my
20 Exhibit 8, correlate to the deep gas scattered reserve
21 potential area that Mr. Doty identified previously.

22 I've listed all the pools and zones within that
23 area and tabulated cumulative gas -- or cumulative
24 recoveries and rates for those pools.

25 Q. All right. With regards to the deep gas, then,

1 Mr. Doty testified that he was not able to, with the
2 current data, provide you net pay isopach maps or ϕh maps
3 by which you could do volumetric calculations for the deep
4 gas within this reserve potential area?

5 A. That's true.

6 Q. How, then, did you as an engineer analyze the
7 potential gas in place or recoverable gas within that area?

8 A. For the deep gas zones I had to rely on analogy.
9 We used a typical well, typical deep completion, based on
10 ultimate recoveries from the wells within the reserve
11 potential area that Mr. Doty outlined.

12 Q. And we're about to see some of that?

13 A. Yes, sir.

14 Q. When we get to the Bone Springs, then, you were
15 able to use a net pay isopach and to do volumetrics as well
16 as analogy analysis for the potential reserve for the Bone
17 Springs?

18 A. Yes, I was.

19 Q. All right. Let's go beyond the data sheet now
20 and look at Exhibit 9 and continue with your discussion
21 about how you've analyzed the deep gas potential.

22 A. Okay, Exhibit 9 lists the wells, again, within
23 the scattered reserve potential area by zone of interest.

24 The first numerical column that you see is
25 cumulative production from each of those wells/zones.

1 The second numerical column, titled "Ultimate
2 Recovery", is then the ultimate recovery from those wells
3 or zones.

4 The difference between cumulative production and
5 ultimate recovery for the active wells is remaining
6 reserves, which are calculated using decline curve
7 analysis. Those curves are attached to the exhibit, Number
8 9, for your information.

9 Q. All right. For the active wells, then, you've
10 got the decline curve analysis, from which you forecasted
11 the ultimate gas recovery per well. You then put it on the
12 spreadsheet, you run the totals, and then what do you do?

13 A. Well, I've got total reserves -- or total
14 ultimate recoveries for all the wells and zones within the
15 scattered reserve potential area. What I did then was take
16 the number of wells, total number of wells within that
17 area, divided it into the total recovery and came up with a
18 typical well that we could expect -- or a typical deep
19 completion ultimate recovery for our area. And that
20 applies to both wells.

21 Q. Is this the way you as a reservoir engineer would
22 have analyzed the opportunity for other wells that were in
23 areas like this, where you had scattered multiple pay
24 opportunities, none of which alone by themselves would
25 support the drilling of a well?

1 A. Yes.

2 Q. So this is not unique to this case?

3 A. No.

4 Q. All right, sir. Let's turn now and see what
5 you've done with the Bone Springs. If you would turn to
6 Exhibit 10, identify and describe what you've done.

7 A. Okay, Exhibit 10 is similar to the previous
8 exhibit, except that these are the four Bone Springs wells
9 that I used for an analogy to come up with a type well for
10 a Bone Springs that I would expect in our locations.

11 Q. Again, when we look at Exhibit 10, you're
12 following that same analogy methodology that you used for
13 the deep gas in Exhibit 9?

14 A. Yes, I am.

15 Q. In addition to the analogy for the Bone Springs,
16 you've also done some volumetric reserve calculations for
17 the Bone Springs?

18 A. I have.

19 Q. Let's turn to Exhibit 11 and have you identify
20 and describe what you've done.

21 A. Okay. Exhibit 11 is a spreadsheet, again, that
22 shows the volumetric calculations that I did for a Bone
23 Springs location for the Federal 33-1. The shaded portion
24 in the bottom shows recovery of 933 million cubic feet, for
25 the 33-1 in the Bone Springs.

1 The rock and fluid properties -- rock properties
2 were taken from Mr. Doty's geological analysis and fluid
3 properties from what we would expect for a Bone Springs
4 completion at this depth.

5 Q. Again, standard, traditional volumetric
6 methodology applied here?

7 A. Yes.

8 Q. Nothing unique or unusual about the method or the
9 parameters used?

10 A. No, there isn't.

11 Q. All right. Having done that, then, how do you
12 as an engineer decide on what is the appropriate reserve
13 potential for this well at this location, as to all these
14 reservoirs?

15 A. Well, with respect to the deep zones, I only have
16 one method that I used, and that was the analogy, so that's
17 my reserve estimate for the deep zones.

18 Exhibit 12 summarizes the reserve estimates that
19 I had for the deep zones and also for a Bone Springs
20 completion. You'll notice that I did the averaging of the
21 13 wells in the reserve potential area, and I've come up
22 with a reserve for deep completion of 673 million cubic
23 feet and 14,500 barrels of condensate.

24 Q. All right. This is recoverable numbers that
25 you're using in your analysis for this well location --

1 A. Yes, in the economics.

2 Q. -- for the deep gas?

3 A. Yes.

4 Q. All right, take us down to the bottom of the
5 spreadsheet, Exhibit 12, and show us what you've done to
6 assign recoverable reserves for the Bone Springs.

7 A. For the Bone Springs, I've got analogy, I've got
8 some wells I could use for analogy. And I've also got --
9 We've got a pretty good handle on the geology, so I felt
10 that an equal weight of volumetrics and analogy would be
11 reasonable, so I took an average of the two methods.

12 I took the average of the per-well recovery from
13 analogy of a little over a BCF and the volumetric estimate
14 of 933 million cubic feet, to come up with a typical Bone
15 Springs completion at the Federal 33-1 location of reserves
16 of about -- a little less than a BCF and 11,000 barrels.

17 Q. Does that give you confidence when you can by
18 analogy get 1 BCF and then by volumetrics get just short of
19 a BCF?

20 A. Absolutely, that lent quite a bit of credence to
21 what I was doing.

22 Q. So you simply averaged the two, then, and got the
23 994,000 MCF?

24 A. Yes.

25 Q. All right. What then do you do? These are not

1 yet risked, and you have not yet applied a cost component
2 to the calculation.

3 A. I've got a reserve estimate. I have to determine
4 whether or not it's an economically viable project for Oxy
5 to undertake.

6 Q. Let's see how you did that. If you will turn to
7 Exhibit 13, identify and describe what you've done.

8 A. Okay. Exhibit 13 is a summary of the economic
9 analyses that I ran for a deep zone completion and also for
10 a Bone Springs completion.

11 If we start at the left and work our way
12 across --

13 Q. Yes, sir, if you start with the first row it says
14 "Deep Zones". The first column is "Net Target MMCF". What
15 have you done to get the 566?

16 A. The net target reserves are simply the analogy
17 reserves, the type well reserves times the net revenue
18 interest that I used for this well. Those are targets;
19 that's what we're going for.

20 However, there's risk involved, especially with
21 the discontinuous nature of the reservoir that we're
22 looking at. So in order to run economics and make a
23 justification, I have to risk the reserves. In order to do
24 that, I categorized these reserves as proved undeveloped.

25 Q. Now, the method for finding the category of

1 reserves is taken from Exhibit 14, which is from the
2 Society of Petroleum Evaluation Engineers?

3 A. Yes.

4 Q. The complete text of that paper is shown as
5 Exhibit 14?

6 A. Yes.

7 Q. All right.

8 A. And on page 1, which is actually several pages
9 back from the text, initial text of it, you'll find three
10 tables.

11 Q. Let's see, you turn --

12 A. Turn back.

13 Q. -- to the fifth page, it says "Statement of
14 Purpose". And right behind that shows you a "Survey
15 Summary"?

16 A. Yes.

17 Q. Can we use this table here that says "Evaluation
18 Criteria"?

19 A. Yes.

20 Q. Let's start with the bottom, then, table and
21 describe how that's subdivided.

22 A. The bottom table is subdivided into various
23 categories of reserves, proved producing, proved
24 undeveloped, probable and possible behind-pipe and
25 undeveloped reserves.

1 Q. Let's see how this is organized. If you look at
2 the bottom of this spreadsheet it says "Possible
3 Undeveloped".

4 A. Yes.

5 Q. Is that the percentage or the category that has
6 the greatest risk associated with it?

7 A. Yes, it is.

8 Q. And as we move to the top of the spreadsheet,
9 proved producing is the category with the least risk
10 assigned?

11 A. Yes, it is.

12 Q. Which category did you assign to this well?

13 A. I assigned proved undeveloped to this well for
14 both the deep zones and the Bone Springs.

15 Q. And why did you do that?

16 A. I couldn't assign it proved producing, obviously,
17 because we don't have a well there. I felt that possible
18 undeveloped was -- There's quite a bit more risk involved
19 in the possible undeveloped category than there is actually
20 for this well, because there is production in the
21 neighborhood.

22 Probable undeveloped I could have used, possibly,
23 but I felt that with the magnitude of the target reserves,
24 it's not that great, and that proved undeveloped -- The
25 50-50 chance of getting the target reserves that I've got

1 from analogy from averaging the ultimates from these wells
2 was plenty of risk to apply to a completion, especially in
3 the deep zones.

4 Q. So you applied the category of risk to it that is
5 the least risk you could assign?

6 A. Yes.

7 Q. So it had the greatest probability of success
8 under your analysis?

9 A. Yes.

10 Q. And that was what? The 55 percent?

11 A. 55 percent, yes.

12 Q. All right. Let's go back, then, to the
13 spreadsheet, Exhibit 13, and see how you finished the
14 analysis.

15 You've picked your category of risk, you've got
16 your risk percentage factor, and then you simply finish out
17 the math, don't you?

18 A. The risk factor was multiplied times the
19 production stream from the reserves and the production from
20 the deep zone. I used a completion cost of \$655,000 for a
21 deep zone completion, ran the economics, and we get a
22 negative \$300,000 present value at 15 percent, rate of
23 return is negative.

24 In the case of the Bone Springs, I did a similar
25 economic analysis where I took the risk factor times the

1 reserves and production stream, used a \$520,000 completion
2 cost.

3 Q. All right. So if you look at Bone Springs stand-
4 alone, you can't do it for a three-percent rate of return?

5 A. No, we can't. That's well below our hurdle rate.

6 Q. And when you package all the deep zones
7 consecutively together, you still get a negative rate of
8 return?

9 A. Yes, you do.

10 Q. So if you put the two together, then what
11 happened?

12 A. If you add the production -- the value from both
13 zones together in the same wellbore and assume a deep
14 completion cost of \$655,000, the result is a positive net
15 present value of 15 percent and a rate of return of 44
16 percent. So that's a good project for Oxy to undertake.

17 Q. So under this analysis, then, the only
18 opportunity for you is to package them together at this
19 location in order to drill this prospect?

20 A. That's the only way we would be able to accept
21 the risk involved.

22 Q. Let's turn now to the exhibit packages for the
23 second case and have you start with Exhibit Number 8

24 Okay, let's go through these, again, then, Mr.
25 Kovarik. If you'll start with Exhibit Number 8 for Case

1 11,454, let's walk through the same analysis. First,
2 starting with Exhibit 8, you've got your reservoir data
3 sheet, again using the same method as you used in the prior
4 discussion.

5 A. Yes, this is the same method, same pools, same
6 wells that we used in the previous discussions.

7 Q. All right, sir, and when we're looking at Exhibit
8 9, we're looking at the same set of data that you used in
9 the prior case?

10 A. Yes, it is.

11 Q. All these numbers are the same; we're still
12 looking at that dashed green area that's identified on
13 Exhibit Number 4?

14 A. Mr. Doty's reserves potential area, yes.

15 Q. All right. Exhibit 10, is this different?

16 A. No, this is the same analogy I used for the Bone
17 Springs as for the --

18 Q. All right, sir. We get down to Exhibit 11 now,
19 in case 11,454, and this one is different because it's
20 volumetrics within that spacing unit?

21 A. Yes, Mr. Doty calculated volumetric estimates or
22 rock properties for the 4-1 and for the 33-1. They were
23 slightly different. And I used his numbers for both
24 cases -- for --

25 Q. Using the same methodology, then, you have

1 derived a volumetric reserves for the Federal 4-1 as shown
2 on Exhibit 11?

3 A. Of 736 million cubic feet.

4 Q. All right, sir. Now, turn to Exhibit 12 and
5 summarize for us what you've done.

6 A. Exhibit 12 is similar to the Exhibit 12 in the
7 previous case, with the exception of the volumetric
8 estimate for a Bone Springs well. That estimate is the
9 same estimate that is shown on the previous exhibit here,
10 giving an average Bone Springs reserve estimate of just
11 less than 900 million cubic feet.

12 Q. All right. Turning to Exhibit 13, show us what
13 you do next.

14 A. Again, in a similar manner, I used the Bone
15 Springs reserves of just less than 900 million cubic feet
16 to run an economic analysis.

17 The deep zones in the Bone Springs again were
18 risked at 55 percent. The Bone Springs economics show a
19 negative net present value of 15 percent, and also a
20 negative rate of return.

21 However --

22 Q. That's even worse than the prior case?

23 A. Yes. Yes, it is, because the reserves estimate
24 is lower --

25 Q. All right, sir.

1 A. -- because of volumetrics.

2 On an expected value risk case, however, when the
3 values are added together, net present value is positive
4 and it results in a 33-percent-rate-of-return project,
5 which is acceptable to Oxy.

6 Q. And again, in summary with regards to the Federal
7 4-1 well, you have concluded you cannot independently test
8 the Bone Springs and then look at the deep gas separately;
9 it has to be done in the same wellbore?

10 A. Exactly, exactly. There's too much -- there's
11 not enough reserves potential -- there's not enough target
12 reserves and too much risk in both the deep zones and the
13 Bone Springs in this location for us to try to get them.

14 Q. All right, sir. And then finally you've
15 referenced your evaluation criteria taking from that prior
16 paper the summary sheet, Exhibit 14, which is shown in the
17 exhibit package.

18 A. Yes.

19 Q. Did you find any reason to change the category of
20 risk as we moved from the first well to the second well?

21 A. Absolutely not. They're in very similar porosity
22 development, net-feet situations, geologically.

23 Q. If anything, the Federal F-4 is more risky than
24 the prior well?

25 A. There are less target reserves calculated than in

1 the Federal 33-1 case.

2 Q. All right, sir. Summarize for us your
3 engineering conclusions, Mr. Kovarik.

4 A. My conclusions are that it would be impossible
5 for Oxy to accept the risk to attempt a Bone Springs
6 location in either the Federal 33-1 location or the Federal
7 4-1 location, and it's impossible for Oxy to accept the
8 risk of a deep completion in either of those locations.

9 However, if the value of the deep zones is added
10 to the value of the Bone Springs on a risk basis in the
11 same wellbore, then it's possible for Oxy to accept the
12 risk and drill for those reserves.

13 MR. KELLAHIN: That concludes my examination of
14 Mr. Kovarik.

15 We move the introduction of his Exhibits 8
16 through 14 in each of these two cases.

17 EXAMINER STOGNER: Exhibits 8 through 14 in both
18 cases 11,454 and 11,458 will be admitted at this time.

19 EXAMINATION

20 BY EXAMINER STOGNER:

21 Q. Mr. Kovarik, is it Oxy's intention to dual-
22 complete this well?

23 A. Not necessarily. If we encountered a good Morrow
24 zone, that's going to give up quite a bit, that looks
25 pretty good, we're not going to try to risk it, I don't

1 think, by dually completing it.

2 However, in both cases we'll have to wait and see
3 what the well tells us when we drill it. It's not an up
4 front -- We haven't decided that up front.

5 Q. In evaluating your completion cost, was that
6 taken into account in completing or running adequate casing
7 which would allow you to dually complete this well?

8 A. Yes, well, we would be -- In the risked
9 economics?

10 Q. Yes.

11 A. It's assuming a Morrow completion. So yes, we
12 would run casing down through the Morrow.

13 Q. But adequate enough size to, say, run two strings
14 of tubing if necessary, or perhaps run the gas up the
15 annulus?

16 A. Yes, oh, yes, absolutely, that would be possible.

17 Q. And when I say "dual completion", I'm talking a
18 deep gas completion with the Bone Springs, not the Wolfcamp
19 with the Morrow.

20 A. Right, I understand.

21 EXAMINER STOGNER: I have no other questions of
22 this witness, Mr. Kellahin.

23 MR. KELLAHIN: All right, sir. Thank you, Mr.
24 Examiner.

25 At this time we would call Rick Foppiano.

1 A. That is correct.

2 MR. KELLAHIN: We tender Mr. Foppiano as an
3 expert witness.

4 EXAMINER STOGNER: Mr. Foppiano is so qualified.

5 Q. (By Mr. Kellahin) Let's turn to the south half
6 of 33, Mr. Foppiano, the Oxy Federal 33-1 well. It appears
7 by its name that it's located on a federal lease?

8 A. That's correct.

9 Q. What is the status of your federal permitting
10 with regards to approval of this specific location?

11 A. The notice of staking has been filed with the
12 BLM, and the BLM has conducted an on-site inspection of the
13 location and has tentatively approved the surface location
14 as a drillable location, pending, of course, approval of
15 the APD.

16 But it's our belief that this is a drillable
17 location and that BLM will allow it to be drilled at that
18 location, based on our discussions with them and the on-
19 site review.

20 Q. All right, sir. And when we turn to the second
21 case in Section 4, the Oxy Federal 4-1 well, that's also on
22 federal acreage?

23 A. That is correct.

24 Q. And what is the status of you obtaining the
25 clearances for use of the surface for a well at that

1 unorthodox location?

2 A. The same as the 33-1, the on-site has been done,
3 the yard clearance has been provided to the BLM, and we're
4 just waiting now on filing and approving the APD.

5 Q. Let's turn to the subject of offset notification.
6 When you look at the Oxy Federal 33-1 well in the southeast
7 of 33, have you caused notification to be sent to all the
8 appropriate offsetting interest owners and/or operators
9 towards which that well encroaches?

10 A. Yes.

11 Q. And also for the well in Section 4, the Oxy
12 Federal 4-1 well, have you done similar notifications and
13 have identified the proper parties to whom that notice
14 should be received?

15 A. That's correct.

16 Q. Identify for us, Mr. Foppiano, the final exhibit
17 in the exhibit package, which is Number 15.

18 A. Exhibit 15 in both Case Number 11,454 and Case
19 Number 11,458 is a waiver of protest from an owner of the
20 shallow rights from the surface to the Bone Springs,
21 located in the northeast quarter of Section 4.

22 We inadvertently gave notice to the operators and
23 the working interest owners in the shallower formations and
24 then subsequently discovered that we didn't need to give
25 them notice because obviously we were orthodox in the Bone

1 Springs and we were not encroaching on them.

2 However, since we gave notice to everyone, we
3 went ahead and pursued making sure that we did give notice
4 to everyone in the Bone Springs there. We noticed we left
5 one individual off, and his name is Mr. Alford, and so we
6 pursued getting a waiver from him, which completed giving
7 notice to all the Bone Springs owners and operators there
8 in the northeast quarter of Section 4.

9 But here again, it wasn't until just recently we
10 figured out that we actually gave too much notice in this
11 case, but we wanted to go ahead and enter the waiver in
12 this case, since we did pursue it, and we talked with him
13 and make him feel like he had a position in this case, and
14 we want to go ahead and put his waiver into the record.

15 Q. Were you responsible for providing the list of
16 parties to notify that's appended to each of the
17 Applications that were filed with the Oil Conservation
18 Division?

19 A. Yes, sir, I worked with my land department in
20 securing the names of all the operators and working
21 interest owners in the areas upon which we were encroaching
22 in the deep gas.

23 Q. To the best of your knowledge and information,
24 are the list of parties to be notified appended to the
25 Applications correct and accurate?

1 A. Yes, to the best of my knowledge.

2 Q. As a result of that notification, are you aware
3 of any objections being filed or communicated to you
4 concerning any of these parties receiving notice?

5 A. I'm aware of none.

6 MR. KELLAHIN: Mr. Examiner, Exhibit 16 is my
7 certificate of notification in Case 11,458.

8 I've neglected to bring the certificate for Case
9 11,454, and with your permission, I will have it delivered
10 to you this afternoon.

11 With your permission --

12 EXAMINER STOGNER: I'll leave the record open in
13 that case, pending the arrival of the certification.

14 MR. KELLAHIN: Thank you, Mr. Examiner.

15 I also am not aware of any objection from any of
16 these parties. I have not received anything in writing or
17 by phone.

18 With that, Mr. Examiner, we would move the
19 introduction of Exhibits 15 and 16 in Case 11,458.

20 EXAMINER STOGNER: Said exhibits will be admitted
21 into evidence at this time.

22 EXAMINATION

23 BY EXAMINER STOGNER:

24 Q. Mr. Foppiano, the well in Section 4, the proposed
25 1 Federal Number 4, I believe it is --

1 A. Yes, sir.

2 Q. -- is that unorthodox for a Bone Spring?

3 A. No, sir.

4 Q. What does the pool rule say about the Bone
5 Spring?

6 A. The pool rules -- We expect that well will be a
7 gas well, and the location there is 150 feet from the
8 center of the quarter quarter. And according to our
9 records, the pool rules are for gas wells 150 feet from the
10 center of the quarter quarter. And 80-acre -- It's an 80-
11 acre laydown unit around that well.

12 Q. According to my calculations, they're not. It's
13 not, pursuant -- Or it's not within 150 feet radius. 2130?
14 That's 330 foot from the center.

15 A. Wouldn't 1980 be the center of the quarter
16 quarter?

17 Q. 1980 from the north, but 2130 from the west. It
18 was my understanding you expect it to be an oil well, from
19 Mr. Kovarik's testimony.

20 A. No, sir, we expect it to be a gas well. It is
21 drilled above the oil-water contact -- I mean the gas-oil
22 contact.

23 MR. KELLAHIN: Then we have a glitch in our
24 advertisement, Mr. Examiner. When it was filed, I was
25 under the misimpression that was going to be an oil well

1 and therefore standard. If the scientists now think
2 there's an opportunity that this would be a gas well, then
3 it would be unorthodox as to the gas.

4 (Off the record)

5 MR. KELLAHIN: Let's resolve this off the record,
6 outside of the hearing, Mr. Examiner. There's a mistake in
7 the notification. We'll have to either readvertise it as
8 to the Bone Springs or to go ahead and subsequently take
9 care of that, so he and I need to work this out.

10 EXAMINER STOGNER: Okay, we'll leave the record
11 open in this case, and then we can recall it when you have
12 that done.

13 Also, if you would, on one of the exhibits -- or
14 provide me at least what the proration unit will be in the
15 Bone Spring.

16 MR. KELLAHIN: Yes, sir.

17 EXAMINER STOGNER: With that, we'll go off the
18 record in these two cases, and they'll be continued.

19 MR. KELLAHIN: All right, sir. Thank you.

20 (Off the record at 9:18 a.m.)

21 (The following proceedings had at 10:30 a.m.)

22 EXAMINER STOGNER: I'll recall Case Numbers
23 11,458 and 11,454 at this time.

24 MR. KELLAHIN: Mr. Examiner, during the break we
25 have re-examined the well location for the Oxy Federal 4

1 Number 1 well, which is the subject of Case 11,454. It is
2 correctly advertised on the docket as being 1980 feet from
3 the north line, 2130 from the west line. That would put it
4 at a standard well location with regards to both an oil and
5 a gas well in the Old Millman Ranch-Bone Springs Pool.

6 In addition, we have confirmed with Mr. Doty that
7 if you'll look on his Exhibit Number 2, he shows a gas-oil
8 contact in a dashed red line on that display. It is his
9 testimony and belief that both of these wells, if
10 successful, would be gas wells, as opposed to oil wells, in
11 the Old Millman Ranch-Bone Springs.

12 With that statement, then, we would request your
13 permission to conclude these cases and have you take them
14 under advisement.

15 EXAMINER STOGNER: I must apologize to -- I was
16 being a little dyslexic. I'm always used to seeing the
17 figure 2310, and when I saw 2130...

18 Now, one of the other things I did ask, the
19 proposed proration units --

20 MR. KELLAHIN: Yes, sir.

21 EXAMINER STOGNER: -- for Bone Spring gas are
22 both going to be laydown?

23 MR. KELLAHIN: I believe that was correct.
24 They're both laydowns, Mr. Examiner.

25 EXAMINER STOGNER: Okay. So for the Federal 4

1 Number 1, that will be a south half of the northwest
2 quarter, and for the Federal 33 Number 1 that would be the
3 south half of the southeast quarter.

4 MR. KELLAHIN: That's correct.

5 EXAMINER STOGNER: And with that, I appreciate
6 your patience on that. Now, we'll leave the record open in
7 11,454, pending your submittal of the certification of
8 notice.

9 MR. KELLAHIN: Yes, sir.

10 EXAMINER STOGNER: Other than that, Case 11,458
11 will be taken under advisement, and for all intents and
12 purposes so will 11,454.

13 MR. KELLAHIN: Thank you, sir.

14 EXAMINER STOGNER: Thank you.

15 (Thereupon, these proceedings were concluded at
16 10:33 a.m.)

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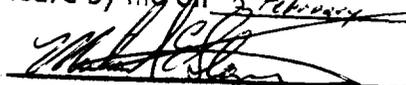
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I do hereby certify that the foregoing is
a complete record of the proceedings in
the Examiner hearing of Case No. 11455 and 11458
heard by me on 8 February 1996.

Oil Conservation Division, Examiner

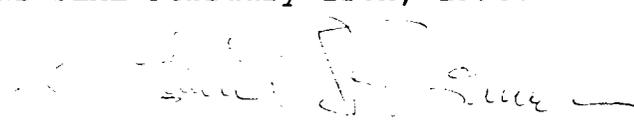
CERTIFICATE OF REPORTER

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

I, Steven T. Brenner, Certified Court Reporter and Notary Public, HEREBY CERTIFY that the foregoing transcript of proceedings before the Oil Conservation Division was reported by me; that I transcribed my notes; and that the foregoing is a true and accurate record of the proceedings.

I FURTHER CERTIFY that I am not a relative or employee of any of the parties or attorneys involved in this matter and that I have no personal interest in the final disposition of this matter.

WITNESS MY HAND AND SEAL February 12th, 1996.


 STEVEN T. BRENNER
 CCR No. 7

My commission expires: October 14, 1998