

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:)

CASE NO. 13,848

APPLICATION OF COG OPERATING, LLC, FOR)
THE APPROVAL OF THE THIRD AMENDMENT OF)
THE GRAYBURG-JACKSON WEST COOPERATIVE)
UNIT AGREEMENT EXTENDING THE VERTICAL)
LIMITS OF THE UNITIZED FORMATION TO)
INCLUDE THE BLINEBRY, TUBB AND DRINKARD)
INTERVALS OF THE YESO FORMATION AND TO)
AMEND ORDER NUMBER R-3127-B TO CORRECT)
CERTAIN FINDINGS AND TO INCLUDE)
COMMINGLED PRODUCTION AND FOR EXTENSION)
OF THE GRAYBURG JACKSON-SEVEN RIVERS-)
QUEEN-GRAYBURG SAN ANDRES-GLORIETA-YESO)
(PADDOCK) POOL TO INCLUDE THE BLINEBRY,)
TUBB AND DRINKARD INTERVALS OF THE YESO)
FORMATION, EDDY COUNTY, NEW MEXICO)

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ORIGINAL

REPORTER'S TRANSCRIPT OF PROCEEDINGS
EXAMINER HEARING

BEFORE: DAVID R. CATANACH, Hearing Examiner

January 4th, 2007
Santa Fe, New Mexico

This matter came on for hearing before the New Mexico Oil Conservation Division, DAVID R. CATANACH, Hearing Examiner, on Thursday, January 4th, 2007, at the New Mexico Energy, Minerals and Natural Resources Department, 1220 South Saint Francis Drive, Room 102, Santa Fe, New Mexico, Steven T. Brenner, Certified Court Reporter No. 7 for the State of New Mexico.

* * *

STEVEN T. BRENNER, CCR
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January 4th, 2007
Examiner Hearing
CASE NO. 13,848

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A P P E A R A N C E S

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* * *

1 WHEREUPON, the following proceedings were had at
2 9:44 a.m.:

3 EXAMINER CATANACH: Call the hearing back to
4 order. At this time I'll call Case 13,848, the Application
5 of COG Operating, LLC, for the approval of the third
6 amendment of the Grayburg-Jackson West Cooperative unit
7 agreement extending the vertical limits of the unitized
8 formation to include the Blinebry, Tubb and Drinkard
9 intervals of the Yeso formation and to amend Order Number
10 R-3127-B to correct certain findings and to include
11 commingled production and for extension of the Grayburg
12 Jackson-Seven Rivers-Queen-Grayburg San Andres-Glorieta-
13 Yeso (Paddock) Pool to include the Blinebry, Tubb and
14 Drinkard intervals of the Yeso formation, Eddy County, New
15 Mexico.

16 Call for appearances.

17 MR. KELLAHIN: Mr. Examiner, I'm Tom Kellahin of
18 the Santa Fe law firm of Kellahin and Kellahin, appearing
19 this morning on behalf of the Applicant, and I have three
20 witnesses to be sworn.

21 MR. BRUCE: Mr. Examiner, Jim Bruce of Santa Fe,
22 representing Devon Energy Production Company, L.P. I have
23 no witnesses, they're simply an interested party.

24 EXAMINER CATANACH: Any additional appearances?

25 MR. KELLAHIN: For the record, Mr. Examiner, I'd

1 like to introduce to your Mr. Tim Leach. Mr. Leach is an
2 engineer. He's also the chief executive officer for Concho
3 and chairman of their board. Mr. Leach.

4 EXAMINER CATANACH: Good morning, sir.

5 MR. KELLAHIN: In addition in attendance is
6 Assistant Land Commissioner John Bemis. He's in attendance
7 as well.

8 EXAMINER CATANACH: Thank you.

9 MR. KELLAHIN: We have three witnesses, then, to
10 be sworn.

11 EXAMINER CATANACH: Will the witnesses please
12 stand to be sworn?

13 (Thereupon, the witnesses were sworn.)

14 MR. KELLAHIN: Mr. Examiner, I have submitted to
15 you and to Mr. Brooks and to the court reporter a complete
16 collated set of our exhibits. We have three witnesses to
17 present.

18 We're going to present Mr. Brent Robertson as our
19 landman to talk about the land issues.

20 Mr. Rickey Cox is a petroleum geologist. He is
21 going to talk about the geologic setting involved in this
22 unit.

23 And then finally, Mrs. Gayle Burleson is the
24 petroleum engineer that's done the engineering work, and
25 she'll talk to you about the aspects in this case that

1 involve the engineering work that she's done.

2 By way of introduction, Mr. Catanach, this
3 Application is the last of a series of voluntary actions
4 that have been taken by Concho concerning the Grayburg-
5 Jackson West Cooperative Unit.

6 Concho is requesting the vertical extension of
7 the unit before you today, authorization for commingling,
8 and in order to remove any doubt about the prior order --
9 there's an R order that was issued in June of last year,
10 it's R Order 3127-B -- to remove any doubt about that
11 order, we seek to correct certain findings in that order
12 because it appears to us that that order was predicated
13 upon erroneous facts that might cause doubts about its
14 validity, and so we'll present that to you and ask you to
15 make the appropriate corrections.

16 Although Concho acquired this unit in February of
17 last year and was aware of some Paddock production and was
18 aware that Mack Energy as the contract operator for the
19 unit was coming forward before the Division and Mr. Brooks
20 back in the fall of -- the spring of last year, we were not
21 aware of the extent of the violations of the Division
22 Rules, Regulations and Orders until August of last year.

23 When they were discovered by Concho, Concho's
24 employees took active effort to voluntarily report and
25 correct all those noncompliant issues. None of Concho's

1 employees were involved in the prior proceedings or the
2 hearings before Examiner Brooks.

3 While the Application today is not a compliance
4 hearing, but rather a unit expansion request with some
5 additional components to it, you can't understand the unit
6 without knowing something about the voluntary compliance
7 proceedings that we request the Division engage with us in.
8 On behalf of Concho, Mr. Scott Hall has been talking in
9 detail with Gail MacQuesten, the compliance attorney for
10 the Division, to make sure that all the units, records and
11 reportings and filings with this agency have in fact been
12 corrected and that the wells are now compliant.

13 As part of that process, Concho discovered in
14 August of last year that there was reporting of production
15 as if it was unit production, which in fact it was unit
16 production and production from lower zones outside the unit
17 that had not been approved. It was simply reported as unit
18 production. That production is associated with members of
19 the Yeso formations. One would have been the Paddock, the
20 other would have been the Blinebry.

21 The other action was, certain of those wells were
22 deepened or drilled without the necessary sundry notice
23 approvals or the APDs being approved. The information that
24 we'll show you is that there was incorrect payments to the
25 Commissioner of Public Lands. There is a 40-acre fee tract

1 within the unit area that Mr. Robinson [sic] will describe
2 for you and explain to you some of the mechanisms that
3 trigger that imbalance in payments. But Concho and Mack
4 Energy have reached a settlement with the Commissioner of
5 Public Lands, have paid the deficiencies in royalty
6 payments. There are no severance tax payments that are not
7 paid. All the accounts have been properly adjusted. We
8 believe at this point, regardless of the violations of the
9 Rules, in fact there's been no harm and there is no foul.

10 As part of the correction process, Mr. Catanach,
11 Concho has taken action to correct all the C-103s, the
12 C-104s, C-105s, with approximately 70 wells. All that was
13 done back in September. In addition, there were plugged
14 and abandoned wells that required change of forms. That
15 was taken care of.

16 In part of the inventory research there was
17 information that there were nine Blinebry wells that had
18 not been properly permitted or authorized, and they were
19 immediately shut in. There may have been some
20 miscommunication recently and they were turned on for a
21 short period of time, but in fact they have now been turned
22 off again. So that's one of the issues before you, is that
23 if you approve the expansion of the unit and pick up these
24 other Yeso zones, by doing so, then, we would have the
25 authority to then commence producing the Blinebry wells

1 again.

2 And then Concho electronically filed the C-115s
3 on the production information, made the proper footnotes in
4 there to alert the Division and to anyone exploring the
5 records that there was a question about the allocations,
6 and we believe we've put everyone on notice as to how --
7 the extent of the violations and our efforts to have those
8 corrected.

9 So before you this morning, we're presenting a
10 case to you that's unopposed, has the unanimous agreement
11 of all the interest owners, we believe the concurrence of
12 the Commissioner of Public Lands, to go forward and make
13 what we consider to be the final corrections. And those
14 corrections are, Mr. Catanach:

15 We seek to expand the unit which currently stops
16 at the base of the San Andres, and we want it expanded
17 through to the top of the Abo. And in doing so we would
18 pick up, then, the Glorieta, the Paddock, the Blinbry, the
19 Tubb and the Drinkard.

20 In the past proceedings, Mr. Brooks may remember
21 that there was nomenclature confusion among us and the
22 Division about how to handle the Yeso. In some areas the
23 Yeso is simply associated with the Paddock, and when you
24 look at the geologic spreadsheet, you'll know the Yeso has
25 multiple components. What we're trying to accomplish here

1 is not only the expansion to pick up the Glorieta and all
2 the Yeso members to the top of the Abo, we want to seek the
3 corresponding contraction of the East Empire-Yeso Pool, so
4 in doing so the whole interval from the top to the bottom
5 of the unit now is one common source of supply.

6 And by doing that, we expose you to another
7 request. That is to remove this unit from the need to file
8 for downhole commingling.

9 The reservoir engineer will present to you this
10 morning her information concerning commingling. You'll be
11 told and you'll become aware that it is not practical to go
12 back and try to reconstruct a separation of production
13 associated with these different intervals, and that in the
14 future, based upon what she will represent to you, we
15 believe that there is no need to have the unit area file
16 for downhole commingling applications. We believe that it
17 is a process that's not necessary in this case.

18 You'll find that the commingling triggers of
19 concern to you as a regulator are: Within the reservoirs
20 am I making any combinations that's going to cause waste?
21 Am I going to create cross-flows or other problems in a
22 reservoir condition that commingling must be carefully
23 examined. And then finally, in that examination, if I
24 allow it to occur, have I impacted the correlative rights
25 of any interest owners?

1 The answers to both of those questions for you
2 today is no. And if the answer is no, we ask you to remove
3 the burden on us and the agency of filing those
4 applications.

5 And then finally we ask that you take the action
6 to correct what I call the B order, and the findings made
7 in that order, which indicated that based upon the
8 presentation of evidence in that case, there was no Paddock
9 production at the time the order was issued. That, in
10 fact, was not correct.

11 Based upon that incorrect finding, then, the
12 predicate for the order was absence of production in the
13 Paddock, and therefore the unit was expanded to include the
14 Paddock. That might be a flaw, or considered a flaw, in
15 the predicate that allowed the approval. To clarify that
16 and make sure that the unit is in full compliance, we want
17 to revisit that issue and tell you what was in existence at
18 the time the order was issued, what we then know now to be
19 wrong, and what the facts are now so that you can make the
20 appropriate corrections.

21 And having done that, at the very end of all
22 this, we hope and believe that we're entitled to a
23 clearance order indicating that this unit and its parties
24 involved are in full compliance.

25 Thank you, Mr. Examiner.

1 EXAMINER CATANACH: Thank you.

2 BRENT ROBERTSON,

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

5 DIRECT EXAMINATION

6 BY MR. KELLAHIN:

7 Q. Mr. Robinson, for the record, sir, would you
8 please state your name and occupation?

9 A. Brent Robertson, senior landman. I'm employed by
10 COG Operating, LLC, and I reside in Midland, Texas.

11 Q. In what capacity are you employed?

12 A. Senior landman, overseeing Eddy County and parts
13 of Lea County and Chaves County, New Mexico.

14 Q. Is part of your responsibility for your company
15 becoming aware of the interest owners and the interests
16 within what we've called this Grayburg-Jackson West
17 Cooperative Unit?

18 A. Yes, sir.

19 Q. If it's all right with you, Mr. Robinson, I'm
20 going to call it the unit.

21 A. It's fine with me.

22 Q. Fewer words for me is much easier. In addition,
23 let's describe what you mean when you talk about COG
24 Operating, Inc. What is that?

25 A. COG Operating, L.L.C., and COG Oil and Gas, L.P.,

1 are wholly owned subsidiaries of Concho Resources, Inc. I
2 would like to refer to those three entities as Concho
3 today.

4 Q. Let's do that, that helps me too. We'll just
5 call it Concho.

6 A. Great.

7 Q. Mr. Robinson, when did you first become involved
8 in the unit?

9 A. We became operator of the unit effective March
10 the 1st, 2006.

11 Q. As part of your involvement in the unit, have you
12 made yourself familiar with the ownership?

13 A. Yes, sir.

14 Q. Are you familiar with the various title documents
15 and filings that have been made with the Commissioner of
16 Public Lands?

17 A. Yes, sir.

18 MR. KELLAHIN: We tender Mr. Robinson as an
19 expert petroleum landman.

20 EXAMINER CATANACH: Mr. Robertson is so
21 qualified.

22 Q. (By Mr. Kellahin) Mr. Robinson, would you take a
23 moment and find what we've marked as Concho Exhibit Number
24 1? Unfold that for us.

25 Mr. Robinson, give us a chance to become familiar

1 with the display. Walk us through what you're trying to
2 identify for us, starting first of all with the outline of
3 what we've called the unit.

4 A. Okay, this map depicts the unit area in Eddy
5 County, New Mexico's, Township 17 South, Range 29 east.
6 Depicted on the map in yellow is the horizontal boundaries
7 of the unit, with the outline of the unit depicted in gray.

8 There are two other units depicted on this map
9 that are not operated by Concho, being the Dodd Federal
10 Unit and the Burch-Keely Unit. The Dodd Federal Unit
11 outline is depicted in a fuchsia color. The Burch-Kelly
12 outline Unit is depicted in a maroon color.

13 Q. When you look back at the yellow area, which is
14 the outline of the Grayburg-Jackson Unit that we're talking
15 about today, as part of the Application before Examiner
16 Catanach, are we requesting any adjustments to the outer
17 boundaries of this unit?

18 A. No, sir.

19 Q. What we're concerned about is the vertical
20 extension of the unit?

21 A. Yes, sir.

22 Q. And what are you proposing to do?

23 A. We propose to expand the vertical limits of the
24 unit to include the depths from below the base of the
25 Paddock formation to the top of the Abo formation, which

1 effectively would unitize the entirety of the Yeso
2 formation.

3 Q. If that is done, then, will you have consolidated
4 within the unit a single common source of supply, starting
5 with the Seven Rivers, going down to the top of the Abo?

6 A. Yes, sir.

7 Q. Let's see how that currently fits within the
8 nomenclature for pool definitions that the Division is
9 using now, incorporating the changes made pursuant to the B
10 order proceedings.

11 A. Okay.

12 Q. Show us what's happened.

13 A. The original unitized -- Well, the pools that are
14 involved in this area are the Grayburg Jackson-Seven
15 Rivers-Queen-Grayburg San Andres Pool, and the Empire East
16 Yeso Pool, which those outline -- the horizontal extent of
17 those pools are also depicted on the Exhibit 1 with the
18 Grayburg Jackson-Seven Rivers-Queen-Grayburg San Andres
19 Pool outline depicted in green and the East Empire-Yeso
20 Pool outline depicted in blue.

21 The B order effectively contracted the East
22 Empire-Yeso Pool across the unit area, to delete the
23 formations from the base of the Seven Rivers-Queen-Grayburg
24 San Andres Pool to -- I'm sorry, the top of the Grayburg
25 Jackson-Seven Rivers-Queen-Grayburg San Andres Pool to the

1 base of the Paddock.

2 So below the base of the Paddock to the top of
3 the Abo, across the unit area is effectively still within
4 the East Empire-Yeso Pool.

5 Q. So when we look at the map and see the East
6 Empire is split into two portions, with a unit in between,
7 the two portions of the Empire being in blue, that split is
8 only indicative of the relationship of the deletion of the
9 Paddock?

10 A. That's correct.

11 Q. Let's go back and talk about the operations of
12 the unit, Mr. Robinson. Who is the current operator of the
13 unit?

14 A. The current operator is Concho.

15 Q. And when did that become effective?

16 A. That was effective March the 1st of 2006.

17 Q. And who was the prior operator?

18 A. The prior operator was Mack Energy Corporation.

19 Q. Summarize for us again, now that we have some
20 understanding of the different entities involved, summarize
21 for us the history of Concho.

22 A. Okay, COG Oil and Gas, L.P., and its sole general
23 partner, COG Operating, L.L.C., are wholly owned
24 subsidiaries of Concho Resources, Inc., which we're going
25 to refer to as Concho in the context of this hearing.

1 Concho acquired 100 percent of the working
2 interest in the unit, along with other properties from
3 Chase Oil Corporation and other certain affiliates, on
4 February 27th, 2006. The unit represented about 120 wells
5 of almost -- over 800 wells that were acquired in this
6 particular acquisition. As mentioned, Concho became record
7 operator of the unit effective March 1, 2006, as successor
8 to Mack Energy Corporation.

9 Since February the 27th, Mack Energy Corporation
10 has served as Concho's contract operator of the unit.
11 However, Mack Energy Corporation is not an affiliate of
12 Concho.

13 Q. To your knowledge, Mr. Robinson, what did Concho
14 know about the unit at the time it acquired the unit back
15 in February of '06?

16 A. We knew that Mack Energy Corporation had applied
17 to expand the unit, and the Application was pending at the
18 time we acquired the unit. We also understood that there
19 was Grayburg, San Andres and Paddock production attributed
20 to the unit.

21 Q. Did you know that there was any noncompliant
22 questions with regard to the unit or these wells?

23 A. Not at the time.

24 Q. When we look at the ownership of the unit, what
25 is the current status of the royalty and the working

1 interest owner within the unit area?

2 A. Within the unit area, currently the working and
3 royalty interest is identical.

4 Q. Is there a fee tract within the exterior
5 boundaries of the unit?

6 A. Yes, there's one 40-acre fee tract within the
7 boundaries of the unit.

8 Q. We'll come back to that in a minute and show the
9 impact of what that has done.

10 If you'll turn now, Mr. Robinson, let's look at
11 Exhibit Number 2. I'd like to use this display, Mr.
12 Robinson, as a locator map, Exhibit Number 2.

13 A. Okay.

14 Q. Give us a general understanding of what you've
15 had placed on this display.

16 A. Okay, Exhibit Number 2 is a map depicting the
17 unit area. Again, it's outlined in a gray color. The map
18 also depicts the locations of the unit wells and is coded
19 on the map as to which interval the well is producing from,
20 either being a Yeso, Blinebry or -- well, I guess it's
21 either Yeso or Blinebry within the unit. There's one
22 Drinkard well depicted outside the boundaries of the unit.

23 Q. If you'll turn now, sir, let's look at Exhibit
24 Number 3.

25 A. Okay.

1 Q. Would you identify for us what Exhibit Number 3
2 is?

3 A. Exhibit Number 3 is a tabular depiction of the
4 tracts within the unit. There's 10 tracts in the unit. It
5 also identifies the current lessor-lessee and legal
6 description of those leases that comprise the unit, along
7 with other various additional information.

8 Q. When we look within the unit boundary, you
9 mentioned that there was a fee tract imposed within the
10 unit area that's not committed to the unit?

11 A. There's a fee tract within the unit that is -- it
12 is not committed to the unit as to depths below the base of
13 the Paddock. It's committed as to the unitized interval.

14 Q. And where is that tract located?

15 A. That tract is the northwest quarter of the
16 northwest quarter of Section 22, Township 17 South, Range
17 29 East.

18 Q. And then again, when we focus on that fee tract,
19 then, it is within the unit and participating in the unit
20 equities from the top of the unit down through the base of
21 the Paddock?

22 A. That's correct.

23 Q. And below the base of the Paddock for this
24 extension interval that you're seeking approval for, it
25 stands outside of the unit agreement?

1 A. At current time, that's correct.

2 Q. Let's turn to a list of the wells in the unit so
3 that Mr. Catanach and Mr. Brooks can see the tabulation of
4 those wells. Identify for the record what that exhibit
5 number is.

6 A. This would be Exhibit Number 4, which is a
7 tabular depiction of the unit wells and their current
8 status.

9 Q. Let's try to put this in some perspective. When
10 you count up the total number of wells within the unit,
11 what's the total number?

12 A. The total number is 120 unit wells.

13 Q. How many of those wells are active producer?

14 A. Eighty-one active producers.

15 Q. How many active disposal wells do you have?

16 A. We have 10 disposal wells, or injectors.

17 Q. The Exhibit Number 4 is color-coded. Is there a
18 significance to the color code?

19 A. Yes, the color code depicted on Exhibit 4 relates
20 back to the color code depicted on Exhibit Number 2 for
21 those wells -- for the unit wells, so that you can match up
22 the colors and identify the current status of the wells,
23 based on Exhibit Number 4.

24 Q. When you count up the number of wells that are in
25 this rust-color, the light red, how many of those wells do

1 you have?

2 A. 47, I believe, would be the answer.

3 Q. So there are 47 wells that are perforated in the
4 Paddock interval, as well as in the Grayburg-San Andres
5 formation?

6 A. That's correct.

7 Q. So that would be one group?

8 A. That's correct.

9 Q. Is there a group of wells that are completed only
10 in the Paddock interval?

11 A. Yes, sir, there are 12 wells solely in the
12 Paddock.

13 Q. And how are they identified?

14 A. Those would be the blue color on the -- on
15 Exhibit Number 4. No, I'm sorry, the blue -- Actually, the
16 blue on Exhibit Number 4 would be the Yeso-Blinebry wells,
17 and there are five of those.

18 Q. Okay, so when you look at the well inventory,
19 you're going to find 12 wells that are perforated and
20 completed only in the Paddock interval?

21 A. That's correct.

22 Q. And you'll have five wells that are completed in
23 the Paddock and the Blinebry, in addition to the Grayburg
24 and the San Andres?

25 A. That's correct.

1 Q. And then you'll have four of these wells that are
2 completed only in the Blinebry and Paddock?

3 A. That's correct.

4 Q. And are all those the combinations, then?

5 A. Those would be the combinations.

6 Q. Set that aside for a moment. Let me direct your
7 attention to another subject. Let's talk about the status
8 of activity with the Commissioner of Public Lands. What is
9 the current status of approvals of the unit with the State
10 Land Office?

11 A. The unit agreement was originally approved by the
12 Oil Conservation Division on October 4th, 1966, by Order
13 Number R-3127, which was subsequently amended on March the
14 4th, 1968, by Order Number R-3127-A, to include an
15 additional 300 acres within the unit.

16 Unitized formation under the unit agreement, as
17 originally described was that portion of the Grayburg-San
18 Andres formation encountered between the depths of 2200
19 feet and 3600 feet underlying the unit area. This is the
20 initial unitized formation.

21 The unit as approved was formed for the purposes
22 of conducting primary and secondary recovery operations in
23 the unit area. The original unit agreement was approved by
24 the Commissioner of Public Lands on September 28th, 1966,
25 and the amended unit agreement, which expanded the unit to

1 include additional lands, was approved by the Commissioner
2 on March 8th, 1968.

3 On September 27th, 2006, the Commissioner of
4 Public Lands issued final approval of the second amendment
5 of the unit agreement, expanding the initial unitized
6 formation within the unit area to be and include the
7 expanded unitized interval. And this interval would be the
8 interval from the top of the Seven Rivers formation to the
9 base of the Grayburg-San Andres formation. That's not
10 right. It was to the base of the Grayburg-San Andres
11 formation, Yeso-Paddock included as well, so it was from
12 the top of the Seven Rivers to the base of the Yeso-
13 Paddock.

14 Q. And that would be the second expansion?

15 A. That's the second expansion or second amendment.

16 Q. Has an application been filed on behalf of Concho
17 to have a third amendment approved which would then
18 authorize the expansion to pick up the other zones down
19 through the top of the Abo?

20 A. Yes.

21 Q. Let me direct your attention to what is marked as
22 Exhibit Number 5. Is this the Application for preliminary
23 approval that was submitted to the Land Office?

24 A. Yes, it is.

25 Q. This morning, did Concho receive a letter from

1 the Commissioner of Public Lands indicating preliminary
2 approval for this last expansion?

3 A. Yes, we did.

4 Q. That has been marked as Exhibit Number 5A,
5 correct?

6 A. Yes.

7 Q. Is it your understanding that this, in fact, is
8 preliminary approval?

9 A. Yes, it is preliminary approval, issued by the
10 Commissioner of Public Lands.

11 Q. Is it also your understanding that before the
12 Commissioner will give you final approval for the
13 expansion, you need an order from the Division approving
14 the expansion?

15 A. That's correct.

16 Q. That's one of your conditions, and that's one of
17 the reasons you're here this morning?

18 A. Yes, sir.

19 Q. Let's turn to the status of the Oil Conservation
20 Division Order. Describe for Mr. Catanach what you believe
21 to be the relevant pools associated with the unit.

22 A. The relevant pools associated with the unit are
23 the Grayburg Jackson-Seven Rivers-Queen-Grayburg San Andres
24 Pool and the East Empire-Yeso Pool.

25 Q. And then what are the specific R orders

1 associated with the unit?

2 A. The specific R orders are R-3127, dated October
3 4th, 1966, original approval for the unit agreement; Order
4 R-3127-A, dated March the 4th, 1968, which added 300 acres
5 to the unit; Order R-3069, dated June 1, 1966, authorizing
6 waterflood operations in Section 28; and on June 13th,
7 2006, the Division entered Order Number R-3127-B in Case
8 Number 13,609, which approved the extension of the vertical
9 limits of the initial unitized formation and the Grayburg
10 Jackson Pool to include all formations from the top of the
11 Seven Rivers formation to the base of the Glorieta-Yeso-
12 Paddock formation, being the depth from 1116 feet to 4636
13 feet below the Kelly bushing, as shown on the Schlumberger
14 log of the Diamondback State Number 1 well, located 2040
15 feet from the north line and 2140 feet from the east line
16 of Section 28, Township 17 South, Range 29 East, Eddy
17 County, New Mexico.

18 As mentioned earlier, we refer to this interval
19 as the expanded unitized interval. The horizontal
20 boundaries of the unit remain unchanged.

21 Q. Do you have a copy of what we call the B order
22 marked as an exhibit for introduction in the hearing?

23 A. Yes.

24 Q. And what is that exhibit number?

25 A. That would be Exhibit Number 6.

1 Q. The order was entered on August 13th of last
2 year. After the entry of the order, what did Concho
3 discover?

4 A. As previously mentioned, we discovered that prior
5 to the entry of the order, the unit contained wells that
6 produced from the Paddock and from the Blinebry intervals
7 of the Yeso formation, and that resulting production had
8 been commingled with Grayburg-San Andres production and
9 reported as unit production without Division approval.

10 Q. How did Concho find this out?

11 A. During our -- Concho's evaluation of a Blinebry-
12 Yeso development plan for the unit in late summer of 2006,
13 we discovered that the Commission's Order R-2137-B
14 contained erroneous findings. Specifically, Finding 10.B
15 states, The Yeso-Paddock interval has not been tested or
16 developed within the unit area, however Mack expects that
17 interval will be productive.

18 And Finding 12 states, in part, There has been no
19 development of that interval in the unit area. The
20 interval referred to is the Yeso-Paddock interval.

21 Q. Are those findings, in fact, correct?

22 A. Those are correct.

23 Q. Are -- I believe they're incorrect.

24 A. Oh, the findings of the Order are incorrect,
25 that's --

1 Q. You have correctly read them --

2 A. Right.

3 Q. -- but they're incorrect findings?

4 A. That's correct, they are incorrect findings.

5 Q. There, in fact, are a number of wells that are
6 drilled into the Paddock and the Blinebry prior to the
7 entry of this order?

8 A. Yes.

9 Q. What has your research indicated was the vintage
10 of these noncompliant wells?

11 A. It appears that from 1984 through May of 1997,
12 wells were drilled or deepened within the unit that were
13 perforated and completed in the Yeso-Paddock formation
14 only, or in combination with the Grayburg-San Andres and
15 the Yeso-Blinebry formations. The regulatory filings made
16 for these wells reported these wells to have been
17 perforated and completed only in the Grayburg-San Andres
18 formation. Further, all production from these wells has
19 been reported as unit production without qualification
20 until recently.

21 It does not appear that the unit operators during
22 the time period in question made application for or
23 received regulatory approval to complete the wells in a
24 formation other than the Grayburg-San Andres formation or
25 to commingle production from separate common sources of

1 supply.

2 Q. Does Exhibit 4 contain a list of all those wells
3 that would be noncompliant?

4 A. Yes.

5 Q. In addition to that, what other noncompliant
6 issues have you discovered, or has Concho discovered?

7 A. We have discovered that production was commingled
8 from unitized and non-unitized formations downhole and at
9 the surface. Production from these wellbores was
10 incorrectly reported as unit production as production came
11 from the initial unitized formation and lower formations,
12 including the expanded unitized interval. Various reports
13 indicating that the completion, perforated and producing
14 intervals as being solely within the initial unitized
15 formation were filed with the Division, which were
16 incorrect. The deepening of certain wells was done without
17 Division approval. And the reporting and payment of
18 royalty attributable to the unit and due to the State of
19 New Mexico was incorrect as a result of these
20 circumstances.

21 Q. Has Concho disclosed to the Commissioner of
22 Public Lands and to the Oil Conservation Division all these
23 issues of noncompliance?

24 A. Yes, Concho has voluntarily disclosed to the
25 Commission all instances of noncompliance known to it

1 related to the unit, and amended reports were prepared and
2 delivered to the Commission on September 14th of 2006.

3 Q. What other filings were made to correct the
4 noncompliant issues?

5 A. Amended reports from three of the four wells
6 which have been plugged and abandoned were also submitted.
7 Previous filings for the fourth plugged and abandoned well,
8 Well Number 87, appear to be correct. Therefore, no
9 amended filings were necessary for that well.

10 The nine Yeso-Blinbry wells that are within the
11 unit area were voluntarily shut in by Concho on September
12 6th, 2006. However, we learned on or about December 23rd,
13 2006, that such wells were inadvertently returned to
14 production during the first week of November by our
15 contract operator. They were immediately shut in again.
16 C-103 forms for those wells were among the records
17 delivered to the Commission on September 14th, 2006, and
18 COG has also electronically filed its C-115 production
19 reports for June through October of 2006.

20 Q. What action has Concho taken with the
21 Commissioner of Public Lands to identify, quantify and
22 compensate the Commissioner of Public Lands office for
23 payment of royalties that may have been deficient?

24 A. Concho and Mack Energy also voluntarily notified
25 the New Mexico State Land Office that the attribution of

1 non-unit production from the Yeso formation to unit
2 production resulted in an underpayment of royalties to the
3 State Land Office.

4 Q. Take a moment, Mr. Robinson, and explain to me
5 how this fee tract caused that occurrence to happen.

6 A. For the production attributable to the intervals
7 which were not part of the unit at the time of the
8 production, the State -- the fee tract was sharing in the
9 royalties from that production. Therefore, the State Land
10 Office was underpaid on royalty basis as those moneys paid
11 to the fee tract should have been paid to the State Land
12 Office for production from the Paddock and Blinebry.

13 Q. Have Concho and Mack Energy reached a settlement
14 with the land office and corrected that underpayment?

15 A. Mack Energy and Concho worked with the -- Well,
16 Mack Energy Corporation has worked with the New Mexico
17 State Land Office to establish a methodology -- to
18 establish the value of the underpayment, which has been
19 determined to be \$615,444.30, including interest. This
20 amount has been paid by Mack Energy to the State Land
21 Office, and Concho, Mack Energy and the New Mexico State
22 Land Office have entered into a settlement agreement to
23 acknowledge the compromise.

24 Q. To the best of your knowledge, are all royalty
25 issues resolved with the Commissioner of Public Lands?

1 A. Yes.

2 Q. At any time during this entire process was there
3 any underpayment of severance taxes?

4 A. No.

5 Q. Has Concho specifically asked the Division's
6 compliance attorney and the Division if there was any
7 further corrective action that they could think of that
8 Concho needed to take?

9 A. Yes, we have specifically asked the Division if
10 there's further corrective actions required in order to
11 bring unit wells into full compliance with the Rules and
12 Regulations of the Commission and the laws of the State of
13 New Mexico. The Division has advised us that no further
14 actions are required of us.

15 However, notwithstanding the remedial steps taken
16 by Concho and the Division's advice to us, we still feel it
17 necessary to correct Findings 10.B and 12 of the B order as
18 part of our effort to extend the expanded unitized
19 formation to the top of the Abo.

20 Q. In addition to correcting those findings you
21 described and expanding the vertical limits of the unit to
22 pick up all these Yeso zones, is there anything else that
23 you're requesting the Division Examiner to do in this
24 process today?

25 A. Yes, we wish to correct the findings of the B

1 order as previously stated, expand the vertical limits of
2 the unit as previously stated, and also obtain approval for
3 past production attributable to unit wells and the various
4 pools within and below the expanded unitized interval, that
5 instead of being allocated and reported for each pool was
6 commingled and reported solely as unit production.

7 Q. Are you also seeking authority to not have to
8 file downhole commingling applications if this Application
9 is approved?

10 A. Yes.

11 Q. To the best of your knowledge, are there any
12 further amendments required to the unit in order to make
13 the necessary adjustments that you're talking about?

14 A. No.

15 Q. Finally, then, Mr. Robinson, as part of this
16 process, you're asking that a C order be issued such that
17 we would have a re-affirmation from the Division about the
18 effectiveness of the B order and that it is now corrected
19 by our action in this Application and the evidence
20 presented today, so there's no doubt about any deficiencies
21 or the validity of that B order?

22 A. That's correct.

23 Q. At this point do you believe that if the Division
24 takes the action that you recommend, that all the
25 correlative rights of the interest owners, mineral owners

1 involved in this unitized area will be properly protected?

2 A. Yes.

3 Q. Let's turn to the topic of notification. I have
4 what is marked as Concho Exhibit Number 7. When we look at
5 Exhibit Number 7, do you understand this to be Mr. Hall's
6 affidavit of publication of notice to all the parties by
7 certified mail?

8 A. Yes.

9 Q. Describe for us what type of notice list Mr. Hall
10 used to send notification to potentially affected parties.

11 A. Concho determined to give notice to every
12 operator of any well located within one-half mile of the
13 exterior boundaries of the unit area, regardless of what
14 pool any of those operators were operating in.

15 Q. In addition, did you give notice to all the
16 interest owners within the unit?

17 A. Yes.

18 Q. What's your knowledge of Devon's operations in
19 this immediate vicinity?

20 A. Devon operates a well, I believe in Section 20 of
21 Township 17 South, Range 29 East, which is a -- I believe
22 it's a deep gas well. And we've noticed Devon of the
23 hearing out of an abundance of caution. And they may
24 operate another well down to the south part of the unit,
25 but the closest one they've got is the one over in Section

1 20.

2 Q. Apart from notice of Mr. Bruce of Devon's
3 interest in the case, has anyone else contacted you or
4 notified you or expressed any objection to the Division
5 approving your Application today?

6 A. No.

7 Q. Do you have the consent of the fee owner to
8 proceed in this matter?

9 A. Yes, the owner of the fee 40-acre tract has
10 approved and executed the third amendment as proposed by
11 Concho.

12 Q. And as of today, you now have the approval of the
13 Commissioner of Public Lands for preliminary approval?

14 A. Yes.

15 Q. Let me direct your attention now, Mr. Robinson,
16 to what has been marked as Concho Exhibit 7A. Do you have
17 that before you?

18 A. Yes.

19 Q. What is this, sir?

20 A. Exhibit 7A is the proposed third amendment to the
21 Grayburg-Jackson West Cooperative Unit Agreement, which has
22 been executed. It's a photocopy of the executed third
23 amendment, executed on behalf of Concho and Mossman-Midwest
24 Company, which is the fee owner of the 40-acre tract
25 included in the unit.

1 MR. KELLAHIN: That concludes my examination of
2 Mr. Robinson at this time, Mr. Catanach. We would move the
3 introduction of Concho's Exhibits 1 through 7, including 7A
4 and 5A.

5 EXAMINER CATANACH: Exhibits 1 through 7,
6 including 5A and 7A, will be admitted at this time.

7 EXAMINATION

8 BY MR. BROOKS:

9 Q. Of course, I was the Hearing Examiner in the
10 proceeding that led to the B order, and I really was not
11 aware when I prepared for this morning that this issue was
12 going to come up with this case, involve that same
13 proceeding.

14 If I understand what you're saying correctly, the
15 records available at the time that this hearing occurred
16 would have reported those wells that were actually
17 producing from the Paddock as being producing from the
18 Seven Rivers-Grayburg; is that correct?

19 A. Yes, sir.

20 Q. So that based on the Division's records as they
21 existed at the time the B order was entered, the statement
22 that there was no production from the Paddock would have
23 been correct; isn't that true?

24 A. That -- the statement that there was no Paddock
25 production across the unit area would have been incorrect.

1 Q. Well, but going back to my premise, based on the
2 Division records as they existed at that time, it would
3 have been correct?

4 A. That's correct, yes, sir.

5 Q. Okay. And I also realize from what you're
6 telling me that there was -- I did actually make one
7 mistake in that order, because I was not aware and did not
8 focus on the fact that the vertical limits of the East
9 Empire-Yeso Pool were actually extended to a deeper level
10 than the base of the Paddock. And as I understand your
11 testimony this morning, the vertical limits of the East
12 Empire-Yeso Pool go all the way to the top of the Abo?

13 A. That's our understanding, yes, sir.

14 Q. Okay, I did not refer to -- I did not study the
15 order establishing that pool, and I didn't really focus
16 from the testimony on the fact that there was that
17 discrepancy. But that means that the East Empire-Yeso Pool
18 continues in existence as to portions of the horizontal
19 limits of the Grayburg-Jackson Unit --

20 A. Yes, sir.

21 Q. -- even after the implementation of the B order?

22 A. Yes, sir.

23 Q. Okay, I think I understand that. And one of the
24 things you're asking for in this Application is retroactive
25 approval for the downhole commingling of the Grayburg-

1 Jackson -- of the Grayburg-Seven Rivers production and the
2 Yeso-Paddock production in the existing wells; is that
3 correct?

4 A. Yes, sir.

5 MR. BROOKS: Okay. I think I've confirmed my
6 understanding of the testimony. I'll let -- I'll defer to
7 you, Mr. Catanach.

8 EXAMINER CATANACH: Okay, as far as the downhole
9 commingling issue is involved, you're seeking approval from
10 now to have approval to downhole commingle?

11 MR. KELLAHIN: We have two problems, Mr.
12 Catanach. We have the past production from zones which
13 were in two different pools, that under the Rules require
14 commingling approval. The testimony from our engineer will
15 be that it's impossible to reconstruct that data set in
16 such a way that you could appropriately make any allocation
17 as to where that production came from, notwithstanding the
18 fact that there are no reservoir engineering concerns of
19 pressure, cross-flow or whatnot.

20 So we have the past history of production that's
21 attributed to the wrong pools, and no way to re-allocate
22 it. If you want to call that downhole commingling, I guess
23 that's what it is.

24 For future production, it's our argument that
25 while the Rule may require and you may decide that we need

1 to continue to file commingling forms for each individual
2 well, it is our belief that the regulatory reasons for
3 commingling don't exist in the unitized area, for two
4 reasons.

5 One, the commingling anticipates a concern over
6 reservoir waste, cross-flows, pressures, compatibility and
7 value. Commingling has occurred in this area, and we'll
8 show you commingling orders shortly. The point is, they're
9 never denied, there is no such reservoir-engineering
10 concern.

11 And the last part of the puzzle is, if you can
12 commingle efficiently to prevent waste, in doing so can you
13 allocate in such a way to protect correlative rights? That
14 matters where you have a difference in ownership. With the
15 approval of the expansion, we believe all ownership in all
16 zones is now common, and we no longer have a future equity
17 problem to address, and the need to file a form is a waste
18 of your time and ours.

19 EXAMINER CATANACH: Well, that's correct, Mr.
20 Kellahin, if we do expand the vertical limits of this pool
21 to include all these formations, in fact, downhole
22 commingling approval is not required in those type of
23 situations --

24 MR. KELLAHIN: That's right.

25 EXAMINER CATANACH: -- because it's all one

1 common source of supply.

2 MR. KELLAHIN: And that's where we're trying to
3 go.

4 EXAMINER CATANACH: Okay. So if we approve the
5 unit expansion to include all those intervals, that kind of
6 takes care of itself as far as the downhole commingling is
7 concerned. We don't really have to address that.

8 MR. KELLAHIN: Well, only in such a way as you
9 make a finding that we have talked about, and it's not
10 applicable. The problem goes away because of the action
11 taken.

12 EXAMINER CATANACH: Okay, what I want to explore
13 also is, the downhole commingling that has gone on up until
14 this point, you need retroactive approval for that as part
15 of your compliance.

16 MR. KELLAHIN: I think we do. I'm concerned
17 about that, because we are here to tell you that, in fact,
18 the reality is that production has been attributed to the
19 wrong pool, that belonged to the Paddock and the Blinebry.
20 The parties involved in that have been compensated. The
21 only disadvantaged party was the Land Office, and they've
22 been paid in an amount that satisfies their concern.

23 And we've shut in the Blinebry wells to avoid
24 future exasperation of the problem until you approve
25 production out of the Blinebry as part of unit production,

1 and we'd like to turn that production back on as soon as we
2 could.

3 MR. BROOKS: But none of the subject wells was
4 located on the fee tract?

5 THE WITNESS: No.

6 MR. KELLAHIN: No, that's true.

7 MR. BROOKS: So there were not any royalties that
8 were paid to the State that should have been paid to the
9 fee owner?

10 THE WITNESS: No, sir.

11 EXAMINER CATANACH: So all of the issues with
12 regards to the payment in those commingled wells has all
13 been taken care of, you just need kind of a regulatory
14 approval, a retroactive approval, to commingle those wells?

15 MR. KELLAHIN: The reality is, I'm looking for
16 somebody that examines this process. They're going to look
17 at the R orders.

18 EXAMINER CATANACH: Uh-huh.

19 MR. KELLAHIN: And if they're going to look for
20 compliance issues and how this fits together, they're going
21 to read the sequence of our orders. They're going to get
22 to the B order and see that there's a glitch in what's
23 going on. If they look at the filings they're going to
24 say, That doesn't make a lot of sense.

25 And what we're wanting with the C order is a way

1 that a title examiner or a regulatory lawyer goes to your R
2 orders, finds the C orders and said, this is all taken care
3 of.

4 There's no direct link between this process and
5 any clearance letter the Division may issue for us on the
6 noncompliance issues. If somebody's looking for that, they
7 may not find it unless you tell them in this order
8 everything is solved.

9 EXAMINER CATANACH: Okay, so that would satisfy
10 you if there was a finding in this order that said all
11 downhole commingling that has occurred prior to this date
12 is hereby approved retroactively? That would satisfy what
13 you're looking for?

14 MR. KELLAHIN: Yes, sir.

15 EXAMINER CATANACH: Okay, and as far as you know,
16 there are no compliance issues that we need to address here
17 today?

18 MR. KELLAHIN: Yeah, the compliance issues will
19 be handling between Mr. Hall for Concho and Gail
20 MacQuesten, your compliance attorney.

21 EXAMINER CATANACH: And it's your understanding
22 we don't need to address any of that?

23 MR. KELLAHIN: Only insofar as you link together
24 changes in the B order.

25 EXAMINER CATANACH: Okay.

1 MR. KELLAHIN: Findings in the B order are
2 outside of what they're doing with the compliance process.

3 EXAMINER CATANACH: Okay.

4 EXAMINATION

5 BY EXAMINER CATANACH:

6 Q. Mr. Robertson, let's get into a little bit of the
7 unit ownership. The working interest is owned 100 percent
8 by Concho?

9 A. Yes, sir.

10 Q. And the fee tract is owned by -- well, you're
11 still the operator of the fee tract, right?

12 A. Yes, sir.

13 Q. Okay. And that's owned by who? What's --

14 A. That's Mossman-Midwest Company.

15 Q. So they're not a working interest owner, they're
16 just a royalty owner?

17 A. That's correct.

18 Q. Okay. So who other royalty interest owners are
19 there?

20 A. Only Mossman-Midwest Company and the State of New
21 Mexico.

22 Q. It's all state land --

23 A. Yes, sir.

24 Q. -- with the exception of the 40- --

25 A. -- with the exception of the 40-acre tract, yes,

1 sir.

2 Q. Well, thank God there's no federal land in there.

3 Okay, and you're satisfied that all of the issues
4 with the State Land Office have been settled?

5 A. Yes, sir.

6 Q. Okay. Now this unit was originally established,
7 I guess, as a waterflood secondary recovery-type unit?

8 A. Originally, yes, sir, it was established for
9 primary and secondary recovery operations. I don't know
10 that there's been a large amount of secondary operations
11 conducted on the unit. That would be something our
12 engineer and geology experts would have to address. But
13 yes, it was established for primary and secondary recovery.

14 MR. KELLAHIN: Mr. Catanach, if I may approach
15 the bench I have copies of the prior orders for you.

16 EXAMINER CATANACH: Okay.

17 MR. KELLAHIN: First one was entered by Mr. Elvis
18 Utz.

19 EXAMINER CATANACH: Wow. Okay. Tenneco Oil
20 Company.

21 Q. (By Examiner Catanach) Okay, so when -- Mack
22 came in for the second amendment; is that correct?

23 A. Yes, sir.

24 Q. They're the ones that came in to get 3127-B
25 issued, right?

1 A. Correct.

2 Q. And they were the owner of the unit at that time?

3 A. They were the owner of the unit when they filed
4 the Application. The case was continued from, I believe,
5 December until April. We closed on the property in late
6 February. So --

7 Q. Okay.

8 A. -- there's an overlap.

9 Q. So it's your understanding that the East Empire-
10 Yeso Pool comprises the Paddock, the Blinebry, the Tubb and
11 the Drinkard, right?

12 A. That's our understanding, yes, sir.

13 Q. Okay. At the time when Mack came in, was it
14 their intent to just include the Paddock at that time, or
15 was it just an oversight?

16 A. I'm not really -- I don't know the answer to that
17 question, but their Application clearly shows the interval
18 as they tied it back to a particular interval and referred
19 to a well log, the Diamondback well, and I believe that the
20 -- the base of the interval they are asking for does not
21 include the entirety of the Yeso Pool, and I don't believe
22 it includes the Blinebry member of the Yeso either.

23 Q. Okay, so they just asked for the Paddock, as far
24 as you know?

25 A. That's my understanding, yes, sir.

1 Q. Okay. Is there Tubb-Drinkard production at this
2 time?

3 A. Not to my knowledge across the unit area. I
4 believe there was some -- a Drinkard test just to the west
5 of the unit, and it probably is depicted on the production
6 map that we submitted as Exhibit Number 2.

7 Q. And as far as you know, there isn't any Tubb
8 production?

9 A. No, sir.

10 Q. The purpose of including those is because -- Is
11 there potential for production?

12 A. I don't know that I'm actually qualified to
13 address that question, but --

14 Q. I'll talk to one of the --

15 A. Okay.

16 Q. -- other people about that.

17 Devon hasn't expressed any objection to the
18 Application, have they?

19 A. No, sir, they merely wanted to have someone here
20 to monitor the hearing; that's my understanding.

21 EXAMINER CATANACH: As far as the correcting of
22 R-3127-B, we simply need to make those findings state that
23 there is -- that there was production from the Paddock at
24 that time?

25 MR. KELLAHIN: Yeah, and that despite that

1 information, you're still adding the approval of the
2 Paddock to the unitization process.

3 EXAMINER CATANACH: Now that application was
4 approved, right? I mean, I --

5 MR. KELLAHIN: Yes, sir.

6 EXAMINER CATANACH: -- I don't --

7 MR. KELLAHIN: Well, there was part of it denied.
8 Part of the -- If you look at the back of that order, the B
9 order, there was a -- I think there was a waterflood
10 component to it.

11 MR. BROOKS: There was a request, I believe, for
12 preliminary approval for secondary recovery operations, and
13 the way the evidence was presented at that time, it did not
14 appear that they qualified for -- since they had not --
15 since it was not shown that there was production from that
16 interval.

17 EXAMINER CATANACH: Okay, so the waterflood
18 aspect in the Paddock was denied?

19 MR. BROOKS: Yes.

20 MR. KELLAHIN: Yes, the applicant did not come
21 forward with the proper evidence, and Mr. Brooks is correct
22 on that.

23 EXAMINER CATANACH: Okay, I think that's all I
24 have for now.

25 MR. KELLAHIN: He's not going anywhere.

1 EXAMINER CATANACH: We can move on.

2 MR. KELLAHIN: Mr. Examiner, at this time we call
3 Ricky Cox.

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

7 DIRECT EXAMINATION

8 BY MR. KELLAHIN:

9 Q. For the record, sir, would you please state your
10 name and occupation?

11 A. My name is Ricky Cox, I'm a petroleum geologist.

12 Q. And where do you reside, sir?

13 A. I live in Midland, Texas.

14 Q. By whom are you employed?

15 A. Concho.

16 Q. Have you previously testified before the Division
17 and qualified as an expert petroleum geologist?

18 A. Yes, sir, I have.

19 Q. Pursuant to your employment with Concho, are you
20 aware of the geologic information associated with what
21 we've called the unit area?

22 A. Yes, I am.

23 Q. As part of your study, have you prepared a
24 geologic evaluation of the unit formations?

25 A. Yes, I have.

1 MR. KELLAHIN: We tender Mr. Cox as an expert
2 petroleum geologist.

3 EXAMINER CATANACH: Mr. Cox is so qualified.

4 Q. (By Mr. Kellahin) Are you the principal
5 geologist for Concho that's responsible for the geology
6 within the unit?

7 A. Yes, sir, I am.

8 Q. And when did you first become involved?

9 A. I started work for Concho in June, and that's
10 when I became involved.

11 Q. I think it will be helpful at this time, Mr. Cox,
12 to take the type log for the unit, which I think is going
13 to be Exhibit 8. I have that, and you have a laser
14 pointer? Sir?

15 A. Yes.

16 Q. And let me move this so the Examiner can see the
17 display, and let's walk through the type log so that he can
18 become familiar with the different geological formations
19 you're dealing with.

20 A. Okay, by way of just a kind of simple description
21 of the unitized interval, the current unitized interval,
22 the Grayburg-Jackson unit, is indicated by the purple bar
23 on the right-hand side of the type log, which is right
24 there. The top of that unitized interval is the Seven
25 Rivers formation. It includes also the Queen, the

1 Grayburg, the San Andres, the Glorieta and the Paddock.
2 That would be the base of the current unitized interval.

3 What we are looking at today is extending the
4 vertical limits of the interval to that shown by the green
5 bar on the left side of the type log, which continues from
6 the base of the Paddock to the top of the Abo, including
7 the Blinebry, the Tubb and the Drinkard members of the Yeso
8 formation.

9 Q. Can you go back to Exhibit Number 2 and show us
10 where the type log well is, Mr. Cox?

11 A. Yes. The type log is a unit well, it's the Unit
12 Well 140. It's located in Section 21, right in the center
13 of your map, and from the -- I call it -- well, the footage
14 call is 1700 south, 1980 west, so you can find that. The
15 unit well numbers are listed above the wells. So it's just
16 to the southwest of the section number, there in the center
17 of the section.

18 Q. This well was drilled down through the base of
19 the Abo, was it?

20 A. It was, it was drilled down into the top of the
21 Wolfcamp. TD --

22 Q. Did it go on deeper? Was this a deep gas well at
23 one time?

24 A. It TD'd at 7500 feet. I believe it was
25 originally intended as an Abo test, because of the Empire-

1 Abo production to the west, so I think it was probably
2 exploring for Abo production further east of the Empire
3 unit.

4 Q. Is this a good quality modern log?

5 A. Yes, it is, it's very good.

6 Q. We're dealing with a dolomite here when we look
7 at all these different formations, either in the Grayburg-
8 Jackson or down in the Yeso -- Empire-Yeso, right?

9 A. We are. They are all dolomites, with a few
10 sandstones in between. The Glorieta, the Tubb are
11 sandstones, and a couple of sandstone units in the San
12 Andres-Grayburg.

13 Q. I can't see that far. What is the top formation
14 that you're depicting on the type log?

15 A. The very top that's listed is the Yates
16 formation, the top of the unitized interval would be the
17 Seven Rivers below the Yates.

18 Q. How do you find on the log the point of the
19 marker that tells you you have a signature that lets you
20 identify a point geologically from which you can then
21 relocate this same position on any other log unit?

22 A. For which specific formation?

23 Q. Well, for any that you choose. What is your
24 control point?

25 A. Well, I generally -- typically use the gamma-ray.

1 The gamma-ray curve is shown on your exhibit in black.
2 It's on the left side of the log. That's the primary
3 identifier, is the gamma-ray curve, and then also I look at
4 the porosity curves which are on your exhibits. Mine is
5 the blue and the red curves.

6 Q. Is that an easily identifiable marker point for
7 you as a geologist to find?

8 A. It is.

9 Q. And can you find that point consistently as you
10 move from log to log across the unit area?

11 A. Yes, for all the formations.

12 Q. In your opinion, then, is this a useful type log
13 for discussion about the geology for the unit area?

14 A. It is.

15 Q. On the right side there is a -- it looks blue to
16 me -- there's a line that runs vertically down through and
17 stops just about the Glorieta?

18 A. It stops at the base of the Paddock.

19 Q. Stops at the base of the Paddock. That line that
20 -- the extent of that line is the status of the approval if
21 you include the B order from the Division, right?

22 A. That is correct.

23 Q. Within that interval, are the characteristics of
24 the dolomite similar as you move among the various
25 formations?

1 A. It is very similar.

2 Q. Within the context of those formations, do you
3 see any geologic reason you should not treat them as one
4 common source of supply?

5 A. No, I don't.

6 Q. Look on the left side. There's a green marker
7 line extending from the top down through -- to the top of
8 the Abo?

9 A. That is correct.

10 Q. The portion that extends below the blue line on
11 the right side, that interval from there, from the pointer
12 down, that is what, sir?

13 A. That is an interval that includes the Blinebry,
14 the Tubb and the Drinkard members of the Yeso formation.

15 Q. Again, these are all dolomites?

16 A. Except for the Tubb. The Tubb is principally
17 sandstone.

18 Q. Do you see any reason among that collective
19 package of formations not to commingle those formations
20 with those above it?

21 A. No, I don't.

22 Q. What kind of things would you look for as a
23 geologist to tell you it would not be a good idea?

24 A. If there were large unexpected porosity zones, if
25 there was a lot of heterogeneity from well to well, if

1 there was a strong pressure difference within the
2 formation, those would all not be good zones to produce
3 together.

4 Q. In the established area, this is all mature
5 production, is it not?

6 A. It is.

7 Q. The oil wells are being produced by plunger
8 lift --

9 A. Yes, they're all --

10 Q. -- they're being pumped?

11 A. Yes, they're all pumped.

12 Q. Is there any water associated with any of these
13 zones?

14 A. All of these zones are associated with relatively
15 high water cuts.

16 Q. And therefore the need for these injection wells
17 that are in the unit?

18 A. Yes.

19 Q. The injection wells are taking produced water
20 from the unit and putting it back into where?

21 A. It's my understanding all of the produced waters
22 reinject into the San Andres.

23 Q. Are you seeing any problem with doing that?

24 A. None to date.

25 Q. It's been historically done for years and years,

1 decades?

2 A. To my knowledge.

3 Q. Let's take us to Exhibit Number 9. If you'll
4 take a moment, Mr. Cox, and identify Exhibit Number 9,
5 we'll use it as a reference map and talk about your two
6 cross-sections.

7 A. All right. Exhibit 9 is a structure map on the
8 top of the Glorieta. The Glorieta is located on the type
9 log at a depth of 3830 feet, approximately. It's labeled
10 clearly. It is about 100 feet above the top of the
11 Paddock, and we typically map the Glorieta to reflect
12 Paddock structure.

13 On your structure map you'll see the two cross-
14 sections identified. There's a west-to-east cross-section.
15 It begins outside the unit, crosses through the unit,
16 continues to the east one location. A north-south cross-
17 section that goes only through the unit itself.

18 The wells on the map are color-coded similarly to
19 the production map earlier entered as an exhibit. The red
20 wells are those that are producing, have perforations in
21 the Paddock member of the Yeso. The blue-colored wells
22 have perforations that are productive in the Blinebry
23 member of the Yeso.

24 There are also within the unit itself nine wells
25 that have a purple triangle around them. Those are wells

1 that are identified as noncompliant Blinebry test within
2 the unit.

3 Q. Can you impose the unit in a regional sense so
4 that we have a regional geologic setting for what's going
5 on here and have you describe that for us?

6 A. Sure. The unit sits within -- sits on the
7 northwest shelf, which is the northern extent of the
8 Delaware Basin in southeast New Mexico. For the intervals
9 that we're talking about today, being the Yeso formation
10 and the shallower units of the unitized interval, all of
11 those intervals were deposited shallow marine water. They
12 typically are shallowing upward cycles. They all show --
13 they're all dolomite. Trap styles are almost always very
14 low-relief anticlines/noses, with thin porosity zones that
15 drape over the nose and pinch out updip, in this case updip
16 to the north, basically.

17 And moving south of the unit, we'll see as we go
18 through the various exhibits, contours, the structural
19 contours, will tighten, indicating steep dip that indicates
20 the southern edge of the northwest shelf, dipping into the
21 Delaware Basin.

22 Q. Do you have a general sense of the permeability
23 in this area of these reservoirs?

24 A. I do from log analysis. Permeability in all of
25 these zones, particularly the Blinebry, is very, very low

1 permeability.

2 Q. Let's go back to Exhibit 9 now and have you
3 discuss with us what you see about the Glorieta structure.

4 A. On Exhibit 9, through the center of the unit and
5 extending east and west -- that would be Sections 20, 21
6 and 22 on the exhibit -- there is a low-relief structural
7 nose as contoured on top of the Glorieta. To the north you
8 lose the nose and you just end up with a very slow, very
9 flat regional dip, downdip to the east. To the south, the
10 southern third of the mapped area, contours are tightening
11 up, indicating steeper dip as you fall off of the front
12 edge of the Yeso shelf margin.

13 Q. Let's go to your cross-sections now. Let's start
14 with Exhibit 10, which will be your east-west cross-
15 section.

16 A. Yes.

17 Q. Identify for the record what we're looking at.
18 Give us a moment to unfold the displays, though, Mr. Cox.

19 Let's go from the west on the far left and move
20 to the east, starting with the well that's outside the
21 unit.

22 A. All right. Exhibit 10 is a west-to-east cross-
23 section. It only includes formations of the Yeso --
24 intended to include those formations. There's a small
25 amount of San Andres shown at the top. The Glorieta, of

1 course, is our structural mapping horizon from the Exhibit
2 9.

3 The base of the cross-section is either the TD of
4 the well or roughly the base of the Abo formation.

5 On the far left side of the cross-section there's
6 a yellow bar, indicating the interval of the Yeso
7 formation. There are several members of the Yeso: the
8 Paddock, the Blinebry, the Tubb, the Drinkard. The Abo is
9 picked in two wells in this cross-section. The other wells
10 did not drill deep enough to find the Abo.

11 Also indicated in the cross-section, in the left
12 track of each log are short horizontal red hachures. That
13 indicates perforations within that well. You'll note well
14 number 3 from the left has no perforations indicated on it.
15 It produces from a shallower horizon.

16 Q. Let's start at the top of the Paddock, then, and
17 have you characterize for us the consistency of the
18 geologic characterization of the Paddock as we move from
19 west to east.

20 A. The Paddock -- the best reservoir character of
21 the Paddock is seen in the porosity curves. Those are the
22 blue and the red curves on the right track of the three --
23 the first, the second and the fourth log.

24 From the very top of the Paddock, if you follow
25 those two porosity curves, after approximately 100 feet

1 there's a strong deviation to the left, indicating a
2 porosity zone. It is relatively consistent in absolute
3 value of the porosity units, and it is about 300 feet thick
4 in each well on the cross-section.

5 Near the base of the identified Paddock member
6 and about 300 feet from the top of the Blinebry, those same
7 porosity curves make a jump to the right, indicating a loss
8 of the porosity. That's where the -- the base of the
9 porosity zone.

10 And you'll see, then, there's a very tight
11 section about 300 feet thick at the base of the Paddock.
12 It's very consistent. The second well on the cross-section
13 from the left shows the same character: tight zone with
14 no -- very little porosity at the top of the Paddock, a
15 sharp jump to the left indicating the porosity zone,
16 continues very consistently for about 350 feet and then
17 makes an abrupt jump to the right.

18 That porosity zone is everywhere within the G-J
19 Unit. Its thickness varies somewhat as you go from north
20 to south, because you're moving from the Paddock shelf down
21 very near or over the shelf edge, so the zone thins some
22 from north to south. East to west as shown on this cross-
23 section, that zone is very consistent in thickness. And
24 that is the principal reservoir within the Paddock member.

25 Q. There's no doubt in your mind as a geologist that

1 this forms a viable prospect for inclusion in the unit and
2 ought to be accessed?

3 A. No doubt. It's productive outside the unit on
4 both sides of the unit and has been tested within the unit.
5 It's commercial.

6 Q. In terms of an exploration strategy, does it make
7 sense to drill new wellbores from the surface all the way
8 down to the top of the Abo and access all these intervals?

9 A. Yes, it does.

10 Q. Is there opportunities in formations below the
11 top -- the base of the Paddock, that ought to be accessed
12 in your opinion?

13 A. Yes, there are.

14 Q. What information can you show us on this east-
15 west cross-section that gives you confidence in the
16 prospective viability of these other zones, the Blinebry
17 and I guess the Drinkard, particularly?

18 A. Well, looking at the first log on the left of the
19 cross-section, within the interval identified as the
20 Blinebry carbonate, you'll also see that there are
21 perforations marked in that well for the Blinebry. The
22 Blinebry is perforated and productive in that well.

23 And comparing the log character from the first
24 well -- that's the Mesquite State Number 14 -- to wells
25 within the unit, the next two wells, and also outside the

1 unit, the last well on the cross-section, the log
2 character, the reservoir properties, are all very, very
3 similar, indicating that the Blinebry should also be
4 productive within the unit.

5 Q. You've indicated, I believe, that there's an
6 absence of potential in the Tubb, is it? It's a sandstone?

7 A. That is correct. I'm not aware of any Tubb
8 production in the area, or attempted Tubb production, and I
9 don't see reservoir quality in the Tubb in this area.

10 Q. But you also want to go down with this drilling
11 strategy to access the Drinkard?

12 A. I do. There is a well in the area that has
13 tested the Drinkard, on the cross-section, the first well,
14 the Mesquite State 14.

15 Also on this exhibit you'll see perforations for
16 the Paddock shown on the log. The Paddock was perforated,
17 acidized and swab-tested by itself. It did test oil, but
18 in rates too low to be commercial. It was not fracture-
19 stimulated or attempted to be fracture-stimulated. It's a
20 dolomite, it's in the same environment of deposition as the
21 Blinebry and the Paddock, sitting on the northwest shelf.
22 It is a shelf rock, it's not a basinal rock. It is similar
23 thickness to the Paddock and the Blinebry, and I think that
24 there's a very good chance that there will be areas within
25 the unit where the Drinkard is thick enough and has enough

1 reservoir porosity that it would be commercially productive
2 with modern stimulation techniques.

3 Q. As part of a unit process, would you recommend
4 that the unit be allowed and authorized by an extension to
5 access by drilling into the Blinebry?

6 A. Into the Drinkard, yes, sir.

7 Q. Into the Drinkard. Through the Blinebry, into
8 the Drinkard?

9 A. Yes, I would.

10 Q. Let's look at it from the north-south direction.
11 Turning now to Exhibit Number --

12 A. -- 11?

13 Q. -- 11. Let's take Exhibit Number 11, Mr. Cox,
14 and go through the same sequence as you did in the east-
15 west direction.

16 A. All right, this log -- the logs in this cross-
17 section are annotated identically to the previous cross-
18 section. Perforations are identified with the same
19 horizontal red hachures. The Yeso interval is identified
20 on the left with the red bar.

21 There is an extra interval identified on this
22 cross-section that's not in the east-west, and that would
23 be the Blinebry sands are identified and correlated,
24 particularly between the last two wells from the right on
25 this cross-section.

1 If we begin on the left, which is the north end
2 of this cross-section, and just look at the pick for the
3 top of the Glorieta, top of the Paddock even, and follow
4 those from left to right, you'll see that there is
5 structural -- increasing structural elevation from the
6 first log on the cross-section to the second, and then it
7 begins to dip again in the last two wells. That's the
8 structural nose that's reflected on the Exhibit Number 9,
9 the Glorieta structure map, and that is one of the elements
10 that is very common in production from the Yeso formation
11 on the northwest shelf.

12 A pick below the Paddock -- the Paddock
13 porosities only we talked about on the east-west section,
14 you can see it here again, particularly in the second well
15 from the left, which is the -- again the Unit 140 well.
16 The deviation of the porosity curves to the left for about
17 300 feet, then they deviate back to the right, showing the
18 base of that porosity zone. You'll note that's also where
19 the perforations are, as they should be.

20 As you move further to the south and downdip, the
21 Paddock porosity is not as good or as thick. The curves
22 available in the Unit Well Number 87, the third well from
23 the left, they do not have the neutron porosity, the red
24 curve. They only have density porosity, the blue curve.
25 You can still see porosity -- the porosity zone present.

1 It's not as good. You're moving further downdip. Away
2 from the shelf margin, closer to the shelf edge, the
3 porosity decreases in quality.

4 And then the very last well on the cross-section,
5 the Leonard Oil well, porosity zone is even thinner in the
6 Paddock, but you end up with a very thick Blinebry sand
7 interval. The Blinebry sands tend to fill in the elevation
8 -- some of the elevation difference as to Blinebry
9 carbonate, thins and falls off the shelf margin.

10 To the north, on the left end of the cross-
11 section, the Blinebry is a very thick carbonate. As you
12 move to the south, to the right, that carbonate thickens --
13 thins dramatically. That's showing you the shelf edge for
14 the Blinebry, and it also is showing you the -- most likely
15 the productive limits of the Blinebry, because you're
16 getting too far into the Basin.

17 But you're picking up Blinebry sands, which are
18 also productive in the area. And if you look on your
19 Exhibit 9, Glorieta structure map, you'll see three blue
20 Blinebry producing wells in Section 29, down in the
21 southwest corner of the map. Those three wells, and the
22 fourth that you can almost see in the adjacent section
23 west, are all productive in the Blinebry sands. They're
24 very good wells. For Blinebry, they're very good wells.

25 The four -- the six wells you see in Section 20,

1 the midwest portion of your structure map, those are all
2 Blinebry carbonate-producing wells. The Blinebry
3 carbonate-producing wells are all in the center where the
4 Blinebry carbonate is the thickest, which follows the
5 geologic model.

6 So from our point of view, the middle and the
7 upper third of the G-J Unit has Blinebry carbonate
8 potential, and the southern third of the unit has Blinebry
9 sand potential.

10 Q. Do you as a geologist see any reason not to
11 combine all these zones into a single common source of
12 supply within the unit?

13 A. No, I don't.

14 Q. Let's look at your structure maps. Let's go to
15 Exhibit -- 12, is it?

16 A. Yes.

17 Q. We're now looking at your structure map on the
18 Blinebry structure?

19 A. That's correct.

20 Q. Give us your major conclusions about the Blinebry
21 structure.

22 A. The Blinebry structure is very similar to the
23 Glorieta structure. All of the shelf margins for the
24 Drinkard, the Blinebry and the Paddock are what we call
25 stacked: They're in the same geographic position. So the

1 nosing reflected on this map is in the same geographic
2 position as the nose from the Glorieta structure map, that
3 being in the center of the G-J unit, trending east-west.

4 Again, that's reflecting the thick Blinebry
5 carbonate on the shelf edge, and as you move to the north,
6 the structure is slightly less exaggerated, as it should be
7 up on the shelf itself, and to the south you'll see the
8 structural contour is very tight, which indicates falling
9 off the shelf edge, down into the Basin. Again, that is
10 the interval in the southern third of the map where the
11 Blinebry sands are expected to be a potential on the shelf
12 edge. Those sands will pinch out as you get onto the shelf
13 margin, in the middle and the northern third of the
14 structure map.

15 Q. Let's turn to Exhibit 13 now. We've moving down
16 with -- staying in the Blinebry, and we're going to look at
17 your isopach of that interval. To set up Exhibit 13, go to
18 the type log and identify for Mr. Catanach the interval
19 that's being isopached. You can do it on one of the cross-
20 sections, if you like. I just want to give him a reference
21 to where you're mapping.

22 A. On the Exhibit 10, on the board before you, the
23 second well from the left is again the G-J Unit Well 140,
24 which is also the type log, Exhibit Number 8. The top of
25 the Blinebry in that well is approximately 4400 feet. The

1 base of the Blinebry and the top of the Tubb is
2 approximately 5400 feet. That is the interval of the
3 isopach before us now as Exhibit Number 13.

4 Q. For purposes of mapping the dolomite, you're not
5 cutting off any of that volume thickness, are you?

6 A. No, this is a gross isopach, the entire
7 thickness.

8 Q. And how is it mapped for us?

9 A. The isopach supports the structure map that we
10 just talked about. The center of the unit, trending east
11 west, is the thickest part of the Blinebry. That would
12 again be the shelf margin of the Blinebry. To the north
13 there's slight thinning as you get up on the Blinebry
14 shelf. And as you move in the southern third of the entire
15 map, the isopach contours get very close together as the
16 Blinebry carbonate thins dramatically coming off of the
17 shelf edge.

18 So again, it strongly supports that the center
19 and northern third of the unit would be where you expect
20 Blinebry carbonate production, and the southern third is
21 where you would expect the Blinebry sands to be productive.

22 Q. Let's go down into the Drinkard and look at the
23 Drinkard structure, Exhibit 14, please. Your marker point
24 for the Drinkard structure is where, sir?

25 A. Again, off the same type log, Unit Well 140, the

1 top of the Drinkard is at 5500 feet.

2 Q. What are your conclusions about the Drinkard
3 structure in the unit?

4 A. The deeper we go in the stratigraphic column
5 here, the fewer well control points we have.

6 On your map, Exhibit 14, you'll still see the
7 noncompliant Blinebry wells in their purple triangles.
8 They're there just for location purposes, to keep you
9 oriented. Only the wells -- the wells with the subsea
10 values are the only wells that drill deep enough to see the
11 Drinkard.

12 Limited well control, but there is sufficient
13 well control to again suggest an east-west-trending nose
14 across the middle of the unit itself. And to the south
15 again the contours tighten up, a steeper dip, indicating
16 most likely the shelf edge moving into the basin. And to
17 the north the rate of dip smooths out greatly, which would
18 be what you'd expect on the shelf.

19 There again, we still expect the northern two-
20 thirds of the unit to have Drinkard shelf potential. The
21 southern third we probably won't find any Drinkard shelf
22 production. Too far off the shelf edge.

23 Q. In summary then, Mr. Cox, is it geologically
24 appropriate to combine all these zones and formations into
25 a common development scheme?

1 A. Yes, sir, I believe so.

2 Q. And in fact treat them as if they were one common
3 source of supply?

4 A. Yes.

5 Q. Will the extension into these lower zones of the
6 Yeso provide an incentive for Concho to drill new wellbores
7 that will produce oil and gas that might not otherwise be
8 recovered?

9 A. I believe so.

10 MR. KELLAHIN: That concludes my examination of
11 Mr. Cox, Mr. Catanach. We'd move the introduction of his
12 Exhibits 8 through 14.

13 EXAMINER CATANACH: Exhibits 8 through 14 will be
14 admitted.

15 EXAMINATION

16 BY EXAMINER CATANACH:

17 Q. Mr. Cox, in the Grayburg-Jackson Pool, the
18 predominant producing formations are what? Grayburg-San
19 Andres?

20 A. Yes.

21 Q. Those are the two, basically, that are being
22 produced?

23 A. Correct.

24 Q. And those have been for a long period of time up
25 here?

1 A. Decades, sir, yes.

2 Q. The Paddock is fairly new as far as production
3 goes. Within the Paddock is it just one -- basically one
4 zone, or is it multiple zones that are productive?

5 A. It's one major porosity zone, but it's not one
6 continuous zone. There are breaks in that major porosity
7 zone dividing it up into multiple intervals, but it's one
8 gross porosity zone.

9 Q. So there is separation between producing
10 intervals in the Paddock, right?

11 A. Small, less than 50 feet separation between
12 zones. Specifically on the cross-section in front of you,
13 the north-south cross-section, well number 2 again, it's
14 the type log also, you see the perforations in the left
15 column of the well, and you can see there are 10-, 15-foot
16 gaps between perforations through the gross-porosity
17 interval. That is as separate as the porosity gets within
18 the Paddock. It's a very good gross porosity zone with
19 thin intervals of tight rock in between.

20 Q. So the zones are isolated from one another?

21 A. Not -- Well, I can't tell you, I don't know that.
22 I don't know that they are.

23 Q. Okay. How about the Blinebry? Is it -- Now let
24 me go back. The Paddock -- All of these zones from the
25 Paddock up, those are mostly oil zones, right?

1 A. Excuse me?

2 Q. Oil zones?

3 A. Yeah, they're all oil. There is a strong gas
4 component, but they're all oil wells.

5 Q. Solution gas drive? Is that more or less --

6 A. Yes.

7 Q. Okay, so the Blinebry is also oil?

8 A. Yes, sir.

9 Q. Same type of reservoir?

10 A. Dolomite, yes, sir.

11 Q. Okay, and is that one major zone or is that
12 several different producing horizons or --

13 A. The Blinebry is distinctly different from the
14 Paddock, and it's reservoir-quality.

15 The Paddock has one gross porosity zone, and the
16 Blinebry does not. It has many thin, discrete porosity
17 zones. They are scattered from top to bottom of the
18 Blinebry, remember. They're not clustered in the top or
19 the middle or the base, they're scattered throughout the
20 entire interval, generally less than 20 feet thick and
21 separated by many tens of feet.

22 Q. How many would you say there are in this -- the
23 producing intervals in that Blinebry?

24 A. Well, I think --

25 Q. Just kind of an estimate, a guess.

1 A. It varies so much. As many as 20 producing
2 zones, could be as many -- thin producing zones, 10, 12
3 feet at a time.

4 Q. Okay. And they're not -- Are they fairly
5 continuous over the unit?

6 A. No, they're not. Over the geographic area? No,
7 sir, no. Even in the areas where we have 40-acre spacing,
8 it's not a mappable event.

9 Q. Okay. And the Tubb, I think you stated there's
10 not much potential in the Tubb?

11 A. I don't believe there is.

12 Q. Okay, and the Drinkard. There's no Drinkard
13 production in the unit right now, right?

14 A. That's correct.

15 Q. But there is some potential -- I believe you said
16 in the northern part of the unit?

17 A. The center, the northern third, I believe so,
18 just based on its isopach thickness. It's similar to the
19 Blinebry maybe five years ago. There were very few tests
20 of the Blinebry, and when it was tested it was perforated,
21 acidized, and it was almost always a very poor result,
22 being low volumes, even dry -- swabbed a dry well. It
23 wasn't until the zone could be stimulated with new fracture
24 technology that it became commercial.

25 That's approximately the same point you're at

1 with the Drinkard now. It may be that it doesn't work in
2 the Drinkard, but there are Drinkard tests where they -- as
3 we showed on the first cross-section, where the zone was
4 perforated, acidized, had oil and gas, just noncommercial,
5 and it wasn't fracture-stimulated. So it could be we're in
6 the same position now with the Drinkard that we were in the
7 Blinebry years ago.

8 Q. Have you seen any zones in this lower portion
9 that are just gas zones?

10 A. No, sir.

11 Q. They're all oil zones, as far as you know?

12 A. That's correct.

13 Q. Are any of these zones fluid-sensitive in any
14 form or fashion?

15 A. We've not seen that.

16 Q. So commingling of these zones is not going to be
17 -- it's not going to prove to be harmful to any of these
18 producing intervals?

19 A. No.

20 Q. These are not good candidates for secondary
21 recovery operations?

22 A. I think the Blinebry and Drinkard are
23 particularly poor candidates.

24 Q. So you don't anticipate any of that occurring in
25 the unit?

1 A. I don't at this time.

2 Q. Were the upper formations ever -- I mean, were
3 they waterflooded at one time, or --

4 A. Upper formations being San Andres?

5 Q. The Grayburg-San Andres, yeah, that you're aware
6 of?

7 A. Yes, loosely.

8 MR. KELLAHIN: Are you looking at me?

9 THE WITNESS: No, I'm looking at Gayle shaking
10 her head.

11 Q. (By Examiner Catanach) Okay. So these zones
12 don't produce -- they're not prolific producers. For
13 instance, the Blinbry, do you have some production numbers
14 from those zones or --

15 A. It will be presented next.

16 Q. Okay.

17 A. I don't have that.

18 Q. Is the San Andres -- You said that was being used
19 as a disposal zone. Is that pretty much depleted in the
20 unit, the San Andres?

21 A. You've left my area of expertise.

22 EXAMINER CATANACH: Okay. I think that's all I
23 have.

24 MR. KELLAHIN: Mr. Examiner, at this time we
25 would call Mrs. Gayle Burleson.

1 GAYLE BURLESON,
2 the witness herein, after having been first duly sworn upon
3 her oath, was examined and testified as follows:

4 DIRECT EXAMINATION

5 BY MR. KELLAHIN:

6 Q. Ms. Burleson, would you please state your name
7 and occupation?

8 A. Gayle Burleson, Petroleum Engineer.

9 Q. And where do you reside?

10 A. In Midland, Texas.

11 Q. By whom are you employed?

12 A. COG Operating, L.L.C., also known as Concho.

13 Q. On prior occasions have you testified before the
14 Division here in New Mexico?

15 A. No, I have not.

16 Q. Summarize for us your education.

17 A. I have a BS in chemical engineering from Texas
18 Tech University in Lubbock in 1988.

19 Q. Subsequent to graduation, where have you been
20 employed as an engineer?

21 A. I have worked for 18 years in Midland, Texas, for
22 various different oil and gas companies in all aspects of
23 reservoir, production, operations engineering.

24 Q. Are you familiar with the petroleum engineering
25 aspects of this Application?

1 A. Yes, I am.

2 Q. What has been your involvement on behalf of your
3 company with the unit?

4 A. I became involved in some preliminary due
5 diligence back in January of 2006, and then became the
6 principal petroleum engineer for the unit when we took over
7 operator in March of 2006.

8 MR. KELLAHIN: Mr. Examiner, we tender Mrs.
9 Burleson as an expert petroleum engineer.

10 EXAMINER CATANACH: She is so qualified.

11 Q. (By Mr. Kellahin) Let me start at the point
12 where you became involved on behalf of your company as its
13 principal engineer. Were you aware that the unit wells
14 were completed in the Blinebry and the Drinkard intervals
15 of the Yeso formations?

16 A. Not when I first became involved in January. I
17 did not find out about the Blinebry production until
18 August.

19 Q. Prior to August, did you have any knowledge that
20 there were any noncompliant wells in the unit?

21 A. No.

22 Q. You had known that there was Paddock production?

23 A. Yes, we knew there was Paddock production, did
24 not know that it was noncompliant.

25 Q. What were you doing that caused you to care to

1 study the unit in August of last year?

2 A. We had been drilling Blinebry wells around the
3 unit to the west and to the east, and we -- my job is to
4 develop and evaluate reserves within our entire unit area,
5 or entire acreage, which actually goes across five township
6 ranges. But for this area, we started looking at a
7 Blinebry development plan in August of 2006.

8 Q. And in doing so, what did you find?

9 A. We found that the order which was given had
10 erroneous findings, the 10.B and the 12, that there was
11 Paddock production in the unit and that the order that was
12 given was to only expand the unit to the base of the
13 Paddock, and we were wanting to develop Blinebry, which the
14 new order does not include that.

15 Q. In looking at the Paddock, did you satisfy
16 yourself as a petroleum engineer that it was a viable
17 prospect to drill into and produce from the Paddock?

18 A. Yes.

19 Q. What did you find regarding the Blinebry?

20 A. We feel that it is also viable to drill and
21 complete and produce into the Blinebry inside the unit,
22 because of offset results that we've had.

23 Q. Your Application requests approval to go down
24 through the Tubb to the top of the Abo and thereby include
25 the Drinkard?

1 A. Right.

2 Q. Why do you want to do that?

3 A. Mainly for two reasons: One, to be consistent
4 with the State in contracting the Empire East-Yeso Pool
5 into the Grayburg-Jackson in this unit so that it is not
6 split like it is right now.

7 And two, for economic reasons. We feel that the
8 Drinkard has not been fully tested or evaluated. We see
9 the potential as Ricky has testified, and we would like to
10 have the ability to also drill these wells to the Drinkard.

11 Q. In terms of an exploration strategy, is it more
12 appropriate to have a single wellbore to access all these
13 zones, or a stand-alone wellbore that tries to produce
14 hydrocarbons out of the Drinkard?

15 A. It's much more economically favorable to drill
16 one wellbore. Without knowing -- having any potential in
17 the Drinkard at this point, the economics just aren't
18 favorable to do that, and we wouldn't drill a single
19 wellbore just to test the Drinkard.

20 Q. If you have authority to drill down through to
21 the top of the Abo, then, would you exercise that in such a
22 way that in accessing all these intervals you would spend
23 the incremental dollars to go ahead and drill and access
24 the Drinkard?

25 A. Yes, we feel like we would do that so that we can

1 fully test and evaluate it.

2 Q. If the pool -- if the unit is extended like you
3 propose, as a petroleum engineer does that give you the
4 option, then, to test and produce any of these zones in any
5 combination?

6 A. Yes.

7 Q. Is that a benefit for you?

8 A. Yes, we feel it's an economic benefit. I have an
9 exhibit we can go through on the drill-well economics.
10 Also as a reservoir engineer, I do not see any reservoir
11 damage or non-benefits of doing this.

12 Q. Summarize then again for us the advantage of
13 using a single wellbore and accessing all these zones if
14 the unit is expanded.

15 A. If we drill a single wellbore, we would start at
16 the base of the Drinkard, which is also the top of the Abo,
17 start there at the Drinkard and obviously come up. If it
18 looks like it's definitely viable, we would test the
19 Drinkard, we would test the Blinebry, produce it. We can
20 then add the Paddock, the Grayburg, the San Andres, the
21 Queen-Seven Rivers at some point in the life of the well.

22 Being able to do this with one single wellbore
23 versus maybe two or three separate wellbores, you save
24 capital investment costs initially. Over time, you also
25 save operating costs of only having one wellbore, you only

1 have the one pumping unit, electricity for that well, the
2 overhead for the one well, versus two or three. You also
3 can produce all of this production into one common surface
4 facility, which we already have in existence, and so
5 therefore you don't have to build a separate tank battery
6 for each well.

7 Q. What is the status of current wellbores and your
8 confidence in being able to take those wellbores and deepen
9 them down through to the base of the Drinkard?

10 A. The current wellbores that we have in existence
11 are really not viable to deepen to the top of the Abo. All
12 of these wells have 5-1/2 casing or smaller, 4-1/2 casing,
13 and to drill those out you would end up with a very
14 slimhole completion.

15 You would probably end up cementing in tubing.
16 And as we've stated, the Blinebry -- the way it's
17 commercially viable is to fracture-stimulate it, and that
18 is not going to be an option to fracture-stimulate it the
19 way it needs to be, down 2-7/8 tubing.

20 So we would have to drill new wellbores.

21 Q. Let's take those conclusions and demonstrate your
22 confidence in those conclusions with your next exhibit. If
23 you'll turn to Exhibit 15, is this an exhibit that you've
24 prepared?

25 A. Yes, it is.

1 Q. Are the engineering calculations matters that you
2 have either calculated or methods that you have performed?

3 A. Yes, it is.

4 Q. Give us a general sense of what we're looking at
5 before we talk about the details. What is this?

6 A. Okay, this is a montage of looking at drilling a
7 single wellbore in either the Blinbry, the Paddock or the
8 Grayburg-San Andres, versus the bottom curve and economics
9 are drilling one well where you add all of the zones
10 together. Instead of drilling two to three separate wells,
11 you would drill one well together.

12 Q. Let's talk about the standards that you applied.
13 Are you using standard conventional engineering practices
14 in using this analysis?

15 A. Yes, this was prepared just with normal cash-flow
16 economics. We have assumed a decline curve for each of the
17 reservoirs that is based on either performance within the
18 unit or directly offsetting the units. Each of these --
19 They're slightly different, based on their performance and
20 characteristics that we've seen.

21 Q. What have you done for pricing?

22 A. Pricing, we used just spot pricing on the close
23 of December the 27th for west Texas intermediate crude at
24 \$60.35 per barrel, and for natural gas at \$5.53 per MCF.

25 Q. Have you made assumptions about capital costs and

1 drilling expenses?

2 A. We have. For the Blinebry drill well that would
3 be a normal investment cost of drilling the well to, say, a
4 depth of 5500 foot. Each of the investment costs are
5 adjusted. A Paddock well would be a little bit shallower,
6 so it would be a million. The Grayburg-San Andres well
7 would also be shallower, a little bit less investment
8 costs. This is if you're drilling and completing just a
9 single wellbore for each of these reservoirs, so you would
10 end up drilling three wells.

11 The bottom one that says a Blinebry drill well
12 plus Paddock plus Grayburg-San Andres is a one well --
13 drill well, plus the cost of doing the ad pay workovers.

14 Q. On the decline curves, how have you established a
15 decline curve for each of the examples on the montage?

16 A. For each of these it's basically a normalized
17 type curve that we have pulled from wells that we operate
18 in the area. We have Blinebry production. The Paddock
19 production also comes from either within the unit or right
20 offsetting the unit, statistical, normal, what we would
21 expect from a Paddock well, such as the Grayburg-San
22 Andres.

23 Q. Are the signatures we're seeing in the decline
24 curve -- I'm looking at the early performance --

25 A. Right.

1 Q. -- is this characteristic, like in the first six
2 months of production of a well, it will have this sharp
3 decline and then it flattens out?

4 A. Yes. Most of the wells, as you can tell, their
5 initial potential is around 40 to 50 barrels a day. That's
6 an average. But they do have a very sharp decline. It is
7 solution gas drive, very tight reservoirs. So they have a
8 hyperbolic look to them. They have a very high decline
9 initially, and at some point, then, they'll level off into
10 a flatter exponential decline.

11 Q. Generally characterize for us the kinds of
12 volumes you would produce from an existing Blinebry-
13 Grayburg Jackson-Paddock combination. What kind of rates
14 are you getting?

15 A. Well, we haven't done that yet, all at one time.
16 We have --

17 Q. I was trying to answer Mr. Catanach's question a
18 while ago --

19 A. I know.

20 Q. -- about these volumes that you're experiencing.

21 A. Right. What we have started -- and it's been
22 just very recent -- offsetting the unit to the west, is
23 drilling just a Blinebry well. As you can see here, it may
24 come in on average 40 to 50 barrels a day. And then a few
25 months later add the Paddock. The Paddock also adds about

1 40 to 50 barrels of oil a day. And then subsequently add
2 the Grayburg-San Andres.

3 We have not yet drilled a well where we've added
4 all the zones together initially at one time, mainly
5 because then it would have required more surface equipment,
6 a bigger pumping unit, and we've wanted to test the zones
7 separately.

8 Q. Let's go back to your exhibit then.

9 A. Okay.

10 Q. What are your conclusions?

11 A. As you can see in each of the boxes for each of
12 the top three separate drill wells, we get an undiscounted
13 payout. That's just when you pay out your investment. The
14 Blinebry well is over five years, the Paddock well is right
15 at four years, and the Grayburg-San Andres well is almost
16 three years.

17 If you look at the bottom box, if we can do all
18 of these together -- and the assumption was that we added
19 the Paddock four months after drilling the Blinebry, and
20 then added the Grayburg-San Andres 12 months after that,
21 that this well actually pays out in just over two years.

22 Q. Let me change topics. Let's talk about this
23 commingling concept. At this point in time there has been
24 historical past production that has been commingled between
25 the Grayburg-Jackson Pool and the Yeso-Paddock. True?

1 A. Yes, within the unit.

2 Q. Is there any way to go back and reconstruct how
3 to re-allocate that back to the pool in which it came from?

4 A. No, we do not think that that is practical at
5 this point.

6 Q. And why not?

7 A. When we reviewed the well histories, some of the
8 wells, the Paddock and the Grayburg-San Andres were all
9 added together at the same time. We also do not have
10 sufficient well test data. But the main reason is that
11 these zones were not tested separately, to give an
12 allocation formula.

13 Q. Well, let's talk about the need to do that at
14 all. If Examiner Catanach approves your Application and
15 extends your approvals to produce any of these formations
16 down through the top of the Abo, do you as an engineer have
17 any concerns about the ability to do this successfully
18 without causing waste?

19 A. No, I don't have any concerns.

20 Q. What kind of things would bother you?

21 A. Obviously we would be concerned about any cross-
22 flow issues, if one reservoir or zone was actually
23 overpressured or abnormally pressured, if the fluids did
24 not appear to be compatible or we had abnormal scaling
25 tendencies, and we have not seen this in any of the wells

1 that we operate.

2 Q. Are the combinations of any of these formations
3 such that you would reduce the value of the end product
4 after combining the fluids?

5 A. No.

6 Q. Is there any water problem associated here that
7 would cause you to prematurely water out an otherwise
8 producing hydrocarbon interval?

9 A. No. As Ricky had stated, all of the reservoirs
10 produce water, but there's not anything that would cause --
11 They're all solution gas drive, their water is going to
12 deplete along with their oil, so there's not anything that
13 would cause an abnormal watering out of the zone.

14 Q. Has the Division approved the commingling of
15 Grayburg-Jackson formation zones with other pools in its
16 production?

17 A. Yes. We -- Concho -- and I have this in Exhibit
18 16.

19 Q. Well, let's turn to that. Let's turn to --

20 A. Okay.

21 Q. -- Exhibit 16 and show what you've --

22 A. We actually --

23 Q. -- put together.

24 A. -- operate five wells where the Commission has
25 approved downhole commingling of the Grayburg Jackson-Seven

1 Rivers-Queen-Grayburg San Andres with the Empire-Yeso East.

2 Q. And all of those have been approved?

3 A. Yes, and all of those are in operation. We also
4 know that Clayton Williams Energy operates 14 wells that
5 also has downhole commingling approval between these two
6 specific pools.

7 Q. So it's been done by others in this area?

8 A. Right. We also --

9 Q. That's why there's been no incompatibility
10 problems?

11 A. No.

12 Q. None of these have been rejected?

13 A. No.

14 Q. To the best of your knowledge, none of them is
15 set for hearing?

16 A. Right.

17 Q. All approved --

18 A. They're all administratively approved, from what
19 I could tell.

20 Q. In summary, then, do you see any adverse effects
21 from eliminating the need to obtain regulatory approval for
22 the commingling of these two pools within the unit?

23 A. No, no adverse effects.

24 Q. How about any adverse effects on correlative
25 rights?

1 A. No. We will have the same ownership if the
2 unitized interval is expanded so that we can include this
3 40-acre fee tract.

4 Q. Do you see any need to file commingling
5 applications pursuant to the Rules and have the Division
6 approve these on a case-by-case wellbore basis?

7 A. No, not if the unitized interval is expanded.
8 And like I said before, all of the downhole commingling
9 that does exist between these two pools has been approved.
10 We don't see any reason why if we applied for one, that it
11 wouldn't be approved.

12 Q. Let's talk about the production potential from
13 each of these zones. Let's start with how you've analyzed
14 this. I assume you've done some type of reservoir
15 performance indications to give you a handle on what you
16 expect out of these zones?

17 A. We have. And for each of these zones, the
18 Blinebry, the Paddock, the Grayburg-San Andres, those are
19 typified in my Exhibit 15 on those type curves.

20 Q. So if we go back to Exhibit 15 and look at the
21 type curves --

22 A. Right. For a Blinebry well we would expect
23 potential reserves of 40,000 barrels of oil and 198 million
24 cubic feet of gas, and that's on average.

25 Q. And for the Paddock?

1 A. The Paddock also ends up being 40,000 barrels of
2 oil. It has a shorter life and a different characteristic
3 to its type curve, but it does come out to 40,000 barrels,
4 and 159 million cubic feet of gas.

5 Q. And then you agree with Mr. Cox that at this
6 point we see no potential in the Tubb?

7 A. Right. At this point, not having any production
8 performance in the area, it's very difficult to put a
9 number to that potential.

10 Q. And then finally down to the Drinkard?

11 A. Well, the Tubb and the Drinkard.

12 Q. The Tubb and the Drinkard.

13 A. Yeah.

14 Q. So you don't have data yet on the Drinkard?

15 A. We do not have reservoir potential at this time.

16 Q. If the Examiner approves your Application, do you
17 believe that by doing so he will allow you to recover
18 hydrocarbons that might not otherwise be recovered?

19 A. Yes, by being able to produce all of the Yeso
20 zones with the Grayburg-San Andres/Grayburg-Jackson zones,
21 we feel like we could drill fewer wells at a lower capital
22 cost and actually produce more reserves. By being able to
23 commingle these wells -- these zones together in one well,
24 you actually extend the life of the well because you have
25 lower operating costs. And otherwise, we might not drill

1 separate wells for each of these zones because of
2 economics.

3 As you can see in Exhibit 15 on the Blinebry-
4 drill well, even at today's favorable pricing it's
5 marginally economic, 13-percent rate of return. Being able
6 to commingle these wells makes it much more economically
7 advantageous.

8 MR. KELLAHIN: That concludes my examination of
9 Mrs. Burleson, Mr. Catanach.

10 We move the introduction of her Exhibits 15 and
11 16.

12 EXAMINER CATANACH: Exhibits 15 and 16 will be
13 admitted as evidence.

14 EXAMINATION

15 BY EXAMINER CATANACH:

16 Q. Ms. Burleson, how did you determine the reserves,
17 for instance, the Blinebry reserves of 39- -- almost 40,000
18 barrels of oil?

19 A. We have drilled approximately 56 wells in the
20 area -- not within the unit, but in the area -- over the
21 last few years. Basically, that's off of a statistical
22 normalized type curve. That's what we see as the average.

23 Q. How about the Paddock?

24 A. Same.

25 Q. And the Grayburg-San Andres, I guess you had a

1 lot of data from wells within the unit?

2 A. We did.

3 Q. Okay. Is there sufficient pressure in any of
4 these zones for the wells to flow?

5 A. No, they all have to be pumped.

6 Q. So that's not a problem with regards to the
7 pressure in the zones --

8 A. Right.

9 Q. -- for any cross-flow --

10 A. No.

11 Q. -- there's no potential for that?

12 A. No.

13 Q. Are the fluids similar, similar to like gravity
14 oil and -- ?

15 A. They are. The Blinebry has a slightly higher
16 gravity oil, but they are very similar. They're -- and all
17 the production is surface commingled.

18 Q. And none of this is sour production?

19 A. It is sour.

20 Q. Oh, it is sour?

21 A. Uh-huh.

22 Q. All of it is sour?

23 A. Yes, as far as I know.

24 Q. What's the potential for drilling wells? Do you
25 guys have an idea of how many wells will be drilled?

1 A. We do. Currently what we have, we have a
2 development plan of trying to expand our wellbores in the
3 unit. If we go back to Exhibit 2, I think it is, you can
4 see over to the west in Section 20 and 29, the Paddock is
5 basically developed on 10-acre spacing. We have a plan in
6 our reserve report to develop the Paddock on 10-acre
7 spacing in the G-J unit, and at this time we have the
8 Blinebry right now developed on 40 acres in the G-J unit,
9 until we know any difference, that -- if we need to infill
10 drill down to 20s or 10s.

11 The reserve -- I didn't get to that, but we do
12 have a reserve potential for the Paddock and the Blinebry
13 in the unit area.

14 Q. Can you give me those numbers?

15 A. Yeah, for the Paddock we estimate a potential of
16 5.7 million barrels of oil and 22.7 BCF gas. And for the
17 Blinebry we estimate a potential of 2 million barrels of
18 oil and 8.5 billion cubic feet of gas.

19 There is also remaining potential of the current
20 producing wells, but we couldn't split that out as Paddock
21 or Grayburg-San Andres, because of complications.

22 Q. And that's based on 10-acre spacing in the
23 Paddock?

24 A. Yes, sir.

25 Q. Do you know how many wells that comes out to?

1 A. Not off the top of my head. I have it.

2 EXAMINER CATANACH: Okay. I guess that's all I
3 have. Did you have anything?

4 MR. BROOKS: I don't think so.

5 EXAMINER CATANACH: I guess as far as the
6 downhole commingling and the retroactive, do you think we
7 need a list of the wells that would have to be
8 retroactively approved?

9 MR. KELLAHIN: I'm happy to provide the list, and
10 then we could decide.

11 EXAMINER CATANACH: Okay, let's do that, just so
12 I have it. And --

13 MR. KELLAHIN: Is there anything else that you
14 would like us to prepare?

15 EXAMINER CATANACH: Draft order.

16 MR. KELLAHIN: Really?

17 EXAMINER CATANACH: Yeah, but it doesn't have to
18 be real elaborate. I just want to make sure I have what --
19 exactly what you guys are asking for set straight, you
20 know, so -- I'm satisfied I can come up with a lot of
21 findings, but I just want to make sure that it's what your
22 asking for.

23 MR. BROOKS: I understand that you're not at this
24 time asking for any secondary recovery approval --

25 MR. KELLAHIN: That's true, we are not.

1 MR. BROOKS: -- previous order.

2 EXAMINER CATANACH: Okay, anything else?

3 MR. KELLAHIN: Not from me.

4 EXAMINER CATANACH: Okay, there being nothing
5 further, this case, 13,848, will be taken under advisement.

6 (Thereupon, these proceedings were concluded at
7 11:58 a.m.)

8 * * *

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12
13 I do hereby certify that the foregoing is
14 a complete record of the proceedings in
15 the Examiner hearing of Case No. 13848
16 heard by me on January 4, 2007
17 David R. Catanch, Examiner
18 Oil Conservation Division
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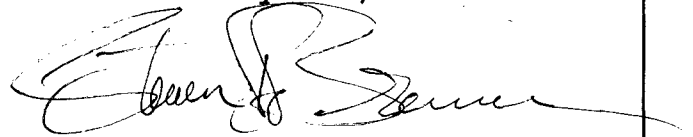
CERTIFICATE OF REPORTER

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 January 5th, 2007.



STEVEN T. BRENNER
CCR No. 7

My commission expires: October 16th, 2010