1 STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING: APPLICATION OF CIMAREX ENERGY COMPANY CASE NO. 13,777 FOR A NONSTANDARD OIL SPACING AND (Reopened) PRORATION UNIT AND COMPULSORY POOLING, LEA COUNTY, NEW MEXICO ORIGINAL EEDINGS REPORTER'S TRANSCRIPT OF PROCEEDINGS EXAMINER HEARING BEFORE: WILLIAM V. JONES, Jr., Hearing Examiner . . . May 24th, 2007 Santa Fe, New Mexico This matter came on for hearing before the New Mexico Oil Conservation Division, WILLIAM V. JONES, Jr., Hearing Examiner, on Thursday, May 24th, 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 (505) 989-9317

INDEX May 24th, 2007 Examiner Hearing CASE NO. 13,777 (Reopened) PAGE EXHIBITS 3 APPEARANCES 3 **APPLICANT'S WITNESSES:** ANTHONY J. CERVI (Landman) Direct Examination by Mr. Bruce 5 DAVID J. RITTERSBACHER (Geologist) Direct Examination by Mr. Bruce 13 Examination by Examiner Jones 18 20 Examination by Mr. Brooks **REPORTER'S CERTIFICATE** 24 * * *

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EXHIBITS

Applicant's		Identified	Admitted
Exhibit Exhibit Exhibit Exhibit	2 3	5 6 8	12 12 12 12
Exhibit		8	12
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DAVID K. BROOKS, JR. Assistant General Counsel Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, New Mexico 87505

FOR THE APPLICANT:

JAMES G. BRUCE Attorney at Law P.O. Box 1056 Santa Fe, New Mexico 87504

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1	WHEREUPON, the following proceedings were had at
2	11:35 a.m.:
3	EXAMINER JONES: Okay, let's call Case 13,777,
4	which is reopened, Application of Cimarex Energy Company
5	for a nonstandard oil spacing and proration unit and
6	compulsory pooling, Lea County, New Mexico.
7	Call for appearances.
8	MR. BRUCE: Mr. Examiner, Jim Bruce of Santa Fe,
9	representing the Applicant. I have two witnesses.
10	EXAMINER JONES: Other appearances?
11	MR. CARR: Mr. Examiner, not an appearance, but
12	if you're going to break for lunch after this hearing,
13	could you tell us what time to return for the afternoon, so
14	we don't have to keep witnesses here?
15	MR. BROOKS: Since we've gone on another Let's
16	say 1:30, if that's okay.
17	EXAMINER JONES: 1:30 sounds good to me.
18	MR. CARR: All right, we'll get back at 1:30.
19	EXAMINER JONES: And the witnesses have already
20	been sworn in the previous case.
21	MR. BROOKS: Sworn and qualified.
22	MR. BRUCE: Mr. Examiner, the only difference
23	between this case and the one you just heard is that this
24	case involves two separate fee tracts.
25	And again, the first witness will be Tony Cervi.

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1	ANTHONY J. CERVI,
2	the witness herein, having been previously duly sworn upon
3	his oath, was examined and testified as follows:
4	DIRECT EXAMINATION
5	BY MR. BRUCE:
6	Q. Mr. Cervi, could you identify Exhibit 1 and
7	identify that for the Examiner?
8	A. Yes, Exhibit 1 is a Midland Map plat highlighting
9	a portion of Township 15 South, Range 36 East, and
10	highlighted in green is a portion of Section 21, including
11	the northwest quarter of the southwest quarter, and the
12	southwest quarter of the northwest quarter.
13	Q. And in this one, page 2 of Exhibit 1 is the
14	Division's Form C-102 for this well, correct?
15	A. Yes, that's correct.
16	Q. The Caudill 21 Caudill South 21 Fee Well
17	Number 2H. This well has been drilled, correct?
18	A. Yes, it has.
19	Q. And does the second page of Exhibit 2 state the
20	final surface and bottomhole locations of the directional
21	wellbores?
22	A. Did you say Exhibit 2?
23	Q. Exhibit Page 2 of Exhibit 1, I mean.
24	A. Okay, I'm sorry. Yes, it does.
25	Q. Okay. And again, is this a Wolfcamp horizontal

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1	test?
2	A. Yes, it is.
3	Q. And what is the Wolfcamp spacing in this area?
4	A. Forty acres.
5	Q. What does Cimarex seek in this case?
6	A. We seek an order creating an 80-acre nonstandard
7	unit in the Wolfcamp formation and pooling the uncommitted
8	interest owners.
9	Q. And again, each quarter-quarter section in this
10	proposed nonstandard unit is a separate tract, correct?
11	A. That's correct.
12	Q. What is reflected in Exhibit 2?
13	A. Exhibit 2 is a listing of all of the interest
14	owners in this 80-acre tract, whether they have been leased
15	or unleased.
16	Q. What is the approximate number of interest owners
17	in both tracts, combined?
18	A. Approximately 108.
19	Q. What is reflected on Exhibit 3?
20	A. Exhibit 3 is the list of uncommitted interest
21	owners.
22	Q. Okay. And so Exhibit 2 are the people who were
23	notified the interest owners in both quarter-quarter
24	sections and the people who were notified for purposes of
25	the nonstandard unit?

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1	A. That's correct.
2	Q. And Exhibit 3 lists the people who were notified
3	for purposes of the compulsory pooling?
4	A. Yes.
5	Q. Okay. Now one final matter on Exhibit 2. You
6	went out and acquired approximately 100 leases; is that
7	correct?
8	A. Yes, that is correct.
9	Q. And on page 6 of Exhibit 2 it lists the unleased
10	owners who you have separately listed on Exhibit 3, and
11	then there are two people the very two entities last
12	listed, are they unleased owners?
13	A. Yes, they are unleased.
14	Q. But they participated in the well?
15	A. They participated in the well, and they have
16	executed a joint operating agreement.
17	Q. Okay. And all of the addresses that you have on
18	the leased or the what you list as either leased or
19	working interest owners are taken from Cimarex's Division
20	Order records; is that correct?
21	A. Yes, that's correct.
22	Q. Now again, has just like in the last case, has
23	Cimarex been out in this area leasing interests for quite
24	some time?
25	A. Yes, over two years.

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1	Q. And when you could not locate or lease the people
2	listed on Exhibit 3, did you send out well proposal letters
3	to these interest owners?
4	A. Yes, we did.
5	Q. And is that reflected in Exhibit 4?
6	A. Yes, it is.
7	Q. And those letters were quite some time ago, nine
8	months eight, nine months ago, and those persons have
9	still not joined in the well, correct?
10	A. That's correct.
11	Q. What efforts Again, there are certain
12	unlocatable people listed on Exhibit 3. What efforts did
13	you make to locate these persons?
14	A. We conducted a search of the county records, the
15	Internet, phone directories, and made an attempt to contact
16	perceived relatives of these individuals.
17	Q. Okay. In your opinion, has Cimarex made a good
18	faith effort to either obtain the voluntary joinder of
19	interest owners in this well or to locate addresses for all
20	of the unleased mineral owners?
21	A. Yes, we have.
22	Q. Could you identify Exhibit 5 and discuss the
23	estimated cost of this well when it was drilled?
24	A. Yes, Exhibit 5 was the AFE prepared for the
25	drilling and completion of this well. The estimated

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1	dryhole cost was \$2,462,356, and the completed well cost
2	was \$3,566,648.
3	Q. What was the actual completed well cost,
4	approximately?
5	A. The actual completed well cost was approximately
6	\$4 million.
7	Q. And is this cost in line with the cost of other
8	wells drilled like this in this area of Lea County?
9	A. Yes.
10	Q. Do you request that Cimarex be appointed operator
11	of the well?
12	A. Yes, I do.
13	Q. And do you have a recommendation of the amounts
14	which Cimarex should be paid for supervision and
15	administrative expenses?
16	A. \$6000 a month for a drilling well and \$600 a
17	month for a producing well.
18	Q. And are these amounts equivalent to those
19	normally charged by Cimarex and other operators in this
20	area for wells of this depth?
21	A. Yes.
22	Q. Do you again request that this rate be adjusted
23	periodically under the COPAS accounting procedure?
24	A. Yes, I do.
25	Q. And were Exhibits 1 through 5 prepared by you or
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under your supervision?

A. Yes.

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MR. BRUCE: Again, Mr. Examiner, I've got a couple of follow-up questions. But just like I said, I did not get the notice published as against the unlocatable people, and so I will -- I would ask that this matter be continued and that we will submit it.

One other matter, and I again ask Mr. Brooks' 8 issue on this. Even though these records on Exhibit 2 came 9 from Cimarex's Division Order files, I received a bunch of 10 mail back that was -- even though these addresses should be 11 current, and as you well know, it's usually up to the 12 interest owner to notify Cimarex of a change in address, 13 but I received, you know -- I don't know how many, but 14 probably ten of these back from people who should be 15 receiving money from Cimarex. And I don't mind publishing 16 17 again as against those people. Would that be the way to 18 go?

MR. BROOKS: Well, that would take care of it.
Now the way the Rule is written, it's only the
unlocatable people, as I recall, that you need to publish.
So I think an alternative way would be to show evidence
that you've been sending checks to these people and they've
been cashing them.

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(Laughter)

MR. BROOKS: I think that would be pretty good 1 evidence that those were good addresses. But I leave it to 2 3 your discretion as to how you want to show it, because if you have a good address, it's not necessary to have a 4 5 return receipt, as I -- That was what we intended when we wrote the Rule, and I think that's the way the Rule reads. 6 7 But --8 MR. BRUCE: Okay, then --9 MR. BROOKS: -- that could be somewhat difficult 10 to establish. 11 MR. BRUCE: -- continue the case for two weeks, 12 Mr. Examiner, and I'll take care of it one way or the 13 other. 14 MR. BROOKS: Okay. 15 MR. BRUCE: I was kind of surprised to get stuff 16 back, but --17 MR. BROOKS: Well, of course the Post Office 18 returns it after a period of time if people don't come to 19 the window and request their certified mail. 20 MR. BRUCE: Yeah, so -- Anyway, with that, Mr. 21 Examiner, I'd move the admission of Cimarex Exhibits 1 22 through 5. 23 I will be submitting Exhibits 6 and 7 in a couple 24 of weeks. 25 And I'd pass the witness.

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1	EXAMINER JONES: Exhibits 1 through 5 will be
2	admitted into evidence.
3	And I have no questions.
4	MR. BROOKS: I don't have any questions for this
5	witness.
6	MR. BRUCE: I do have one.
7	Q. (By Mr. Bruce) In looking at your Exhibit 1, Mr.
8	Cervi, is Cimarex the offset operator to the west of this?
9	A. Yes, we are.
10	Q. And as I And if you look to the east, insofar
11	as offset operators go, is the north half a single tract,
12	pretty much?
13	A. Yes, the north half is a single tract.
14	Q. And what about the southwest quarter?
15	A. The southwest quarter is a single tract.
16	MR. BRUCE: Okay. So Mr. Examiner, if you wanted
17	me Cimarex is the offset operator of all these tracts.
18	MR. BROOKS: Okay.
19	MR. BRUCE: Of the nonstandard unit, I should
20	say.
21	MR. BROOKS: Very good.
22	MR. BRUCE: Call Mr. Rittersbacher back to the
23	stand.
24	Have the record reflect that the witness was
25	previously sworn and qualified.

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1	DAVID J. RITTERSBACHER,
2	the witness herein, having been previously duly sworn upon
3	his oath, was examined and testified as follows:
4	DIRECT EXAMINATION
5	BY MR. BRUCE:
6	Q. Mr. Rittersbacher, could you turn to Exhibit 8,
7	which looks pretty familiar, and discuss what that shows
8	with respect to the proposed or I should say the Caudill
9	South 21
10	A. Exhibit 8 is the same exhibit that we used in the
11	last hearing as a locator map, however instead of talking
12	about the Denton field now we're going to shift to the west
13	and talk about the Caudill field area, which is located in
14	15 South, 36 East.
15	That field was discovered in 1954. It produces
16	primarily from the Devonian, Atoka and Permo-Penn, although
17	the Permo-Penn production is completely dominated by the
18	Wolfcamp formation, and that's the formation we're going to
19	be discussing in this hearing today.
20	Q. And again on this, you're kind of moving
21	rather than moving east, you're kind of moving to the west
22	of existing or southwest of existing production; is that
23	correct?
24	A. Right. The location of the Caudill South 21 Fee
25	Number 2H is shown by the arrow down in Section 21. It was

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1	drilled from south to north on the southern margin of the
2	Caudill field.
3	Q. Okay, why don't you move to your Exhibit 9 and
4	identify that for the Examiner?
5	A. Exhibit 9 is a blowup of Section 21 on the south
6	end of the Caudill field. It shows Cimarex acreage again
7	in yellow. It's a Wolfcamp it's a Permo-Penn, but in
8	this case all the production is Wolfcamp, as we mentioned
9	earlier. So it's a Wolfcamp cum oil production map, and
10	the cumulative production for each well is shown in the
11	upper right-hand corner in green for each well in the
12	section.
13	The red arrow identifies the location of the
14	Caudill 21 Number 2H well. Surface hole location is in the
15	northwest of the southwest, and the bottomhole location is
16	in the southwest of the northwest. And the 80-acre unit
17	for the well is the dashed line shown in orange.
18	This is a structure map on the base of the
19	Wolfcamp C zone, which is our target in this area, and you
20	can see that the structure dips off gently to the south.
21	Q. On this And then you have a cross-section, a
22	line of cross-section is shown on this plat?
23	A. That's right. On Exhibit 9 the line of cross-
24	section is denoted as A-A'. It's a three-well structural
25	cross-section, and the purpose of that cross-section is to

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show the reservoir continuity surrounding the horizontal 1 2 well. And before you move off of Exhibit 9, it appears 3 Q. 4 that four of these existing wells -- or four of the wells 5 are plugged, correct? Α. That's right, all the wells that have a slash 6 7 through them are no longer producing. They're inactive, plugged wells. The only producing well is the well that's 8 in the southeast of the northwest. That's our Caudill 21 9 Number 1 well, completed in 2006. That well produces a 10 steady 25 to 30 barrels a day. 11 So the reason why we felt this needed a 12 horizontal well is, we needed to get a higher rate to make 13 14 the production more economic in this area. 15 Q. Okay, let's move on to Exhibit 10, your cross-16 section. What does that --All right, the cross-section A-A', again that's a 17 Α. structural cross-section. The horizontal target zone 18 within the Wolfcamp C interval is denoted by the red line, 19 and the C interval itself that's our target is denoted in 20 green on each of the logs. 21 22 I'd like to point out that the far right-hand well is the 21 Fee Number 2H pilot hole log. 23 24 The porosity zone, which is a neutron porosity 25 log -- the porosity zone for the C zone is colored in

green, and that was our target interval for this well. 1 What we'd like to move to next is a display of 2 the actual horizontal well that we drilled in that Wolfcamp 3 C horizontal target zone, and that's Exhibit Number 11. 4 This well was drilled from south to north. 5 And because we go upstructure to the north, the well was 6 7 drilled at a slight incline to horizontal. So it moves 8 upstructure as we move towards the toe of the well. 9 Let me point out the curves that are presented on 10 this well. To the left-hand side is the gamma-ray that we 11 acquire, MWD, and that's on the bottom of the log as we get into the horizontal. It's shaded in blue where the gamma-12 13 ray is clean. On the right-hand side, or on the top as you get 14 into the horizontal, is a display of the mudlog total gas, 15 and that's shaded in red where we had gas shows. 16 You can see that we had gas shows along the entire length of the 17 18 lateral. 19 And we completed this well by placing three 20 packers in the lateral. And they are shown as packers 1, 2 21 and 3. Packer number 1 is at 11,645; packer number 2 is at 22 11,269; packer number 3 is at 10,873. 23 Also shown on this display is where we cross the 24 quarter-quarter section boundary, and that was at 25 approximately 11,070 feet measured depth.

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How we treated this well was, we treated it in 1 2 three stages. Stage number 1 was from packer number 1 to 3 the toe of the well, and it was acidized with 12,500 Then we treated stage number 2 between packers 1 4 gallons. 5 and 2. That was treated with 12,000 gallons. And finally, 6 we treated stage number 3 between packers 2 and 3 with 16,000 gallons. So each section of the horizontal was 7 treated, and all three sections are currently producing at 8 this time. 9 And what are the producing rates? 10 Q. What we'd like to move to next is a production 11 Α. display, Exhibit 12. It's a daily production plot. It has 12 three curves displayed. Each is daily production rates. 13 In red is gas, in MCF per day. In green is oil, in barrels 14 15 of oil per day. And in blue is water, in barrels of water 16 per day. You can see that the well IP'd in January for 17 just over 100 barrels of oil per day, and has currently 18 declined to a rate of 60 to 65 barrels of oil per day. 19 And again, all three stages covering both quarter-quarter 20 section tracts are contributing to the production of this 21 well. 22 And as a result, again since production is coming 23 Q. 24 from each quarter-quarter section, do you think a 25 nonstandard unit is necessary and proper?

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1	A. We do.
2	Q. Were Exhibits 8 through 12 prepared by you or
3	under your supervision?
4	A. They were.
5	Q. And in your opinion is the granting of this
6	Application in the interests of conservation and the
7	prevention of waste?
8	A. It is.
9	MR. BRUCE: Mr. Examiner, I'd move the admission
10	of Cimarex Exhibits 8 through 12.
11	EXAMINER JONES: Exhibits 8 through 12 will be
12	admitted.
13	EXAMINATION
14	BY EXAMINER JONES:
15	Q. This When you finally stopped, was that where
16	you planned to stop?
17	A. Yes, it was.
18	Q. Okay. So you just stopped because if you would
19	have gone further, you would have
20	A. It would become nonstandard if we
21	Q. Nonstandard?
22	A had drilled any further.
23	Q. You would have had to come back and include that
24	other 40 acres?
25	A. That's correct. And of course, one of the things

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1	we don't want to do is get too close to the older wells
2	that have been plugged, because they're depleted.
3	Q. Okay, there is a plugged well
4	A. Yes, just to the north of where we landed
5	Q. Okay.
6	A in the northwest northwest.
7	Q. Okay. How did you put that acid down? Did you
8	just pump it with a diverter or
9	A. What we do is
10	Q what kind of
11	A we have in the packers we are able to seat
12	a ball
13	Q. Okay.
14	A so we pump the acid stage, then we seat a ball
15	and seal off that section of the well, then we pump the
16	next stage, pump the next ball
17	Q. But did you put some rock salt or something in it
18	to divert the acid while you were pumping?
19	A. No, it just it treats between the packers, it
20	goes wherever it chooses to go.
21	Q. Wherever it wants to go?
22	A. Yes.
23	Q. Okay. Can you pay out a well, making 60 Will
24	this well pay out?
25	A. We think it will, because it's on a fairly

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1	shallow decline, but it won't have a very high rate of
2	return.
3	Q. And you've got to pump it, right?
4	A. It's pumping, that's correct.
5	Q. Okay. And it's on electricity, I assume?
6	A. That's right.
7	EXAMINER JONES: That's all my questions.
8	EXAMINATION
9	BY MR. BROOKS:
10	Q. Okay. Once again on Exhibit 9, the yellow is
11	Cimarex Acreage, correct?
12	A. That's correct.
13	Q. And do you know if the acreage the working
14	interest ownership in the acreage to the east, is that
15	identical to the working interest ownership in the proposed
16	unit?
17	MR. BRUCE: Mr. Cervi did testify that, yeah,
18	that in this case the north half is a single fee tract
19	MR. BROOKS: Yeah.
20	MR. BRUCE: and the southwest quarter is a
21	single fee tract.
22	MR. BROOKS: Okay. Now does Cimarex own 100
23	percent of the working interest in this
24	MR. BRUCE: Well, except for the unleased
25	interests
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MR. BROOKS: Except for the unleased interests. 1 MR. BRUCE: -- which are --2 MR. BROOKS: -- the people you're pooling? 3 4 MR. BRUCE: Correct. (By Mr. Brooks) Okay. Now let's see, what -- I 5 0. think I covered all the questions that would be necessary 6 for where we were trying to get in the last hearing, but 7 just to make sure they get on the record for this one as 8 well, and you have a little more experience in this area, I 9 gather, because you have several Wolfcamp wells in this --10 Cimarex has some Wolfcamp wells in this immediate vicinity? 11 Yes, we have two in this area now, the horizontal 12 Α. well that's producing, and then the 21 Number 1, which is 13 14 a --15 ο. Yeah. 16 Α. -- well, which is in the southeast of the 17 northwest. Okay. Have you made a determination to what -- I 18 Q. know the bubble shows the amount of production; it doesn't 19 20 have anything to do with the radius, correct? Α. That's correct. 21 22 So have you made any determination of the radius Q. 23 of drainage on these wells? 24 Α. We have not. 25 Do you have an opinion as to what you Q. Okay.

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expect to be the drainage area from this horizontal well, 1 2 drilled as proposed? I have an opinion that we will probably drain the 3 Α. 80, because this particular zone has fairly good 4 permeability. Although the fact that these wells date back 5 to the late '50s and early '60s, the fact that there's 6 7 remaining mobile oil in this area, speaks to the fact that 8 they did not drain a very large area. 9 Now, if you -- Based on your experience drilling ο. in this area, you believe that vertical wells to the 10 Wolfcamp would likely be uneconomic? 11 Well, what we -- we fall back on the rate that 12 Α. the 21 Number 1 produced at --13 14 Right. Q. 15 -- which it IP'd around 70 barrels a day and then Α. declined quickly to a 25- to 30-barrel-a-day well and then 16 17 was flat. That was marginally economic. So we hope to do better with our horizontal well. And we did get a better 18 IP, around 110 barrels a day, and now it seems to be 19 20 flattening out around 60 to 65 barrels a day. 21 0. So would you think that if you drill this 22 horizontal well you would be able to produce reserves that 23 would not otherwise be produced? 24 Α. I believe so. 25 Thank you, that's all I have. MR. BROOKS:

1 MR. BRUCE: That's all I have, Mr. Examiner. 2 EXAMINER JONES: So Case 13,777, reopened, will 3 be has been heard, but it will be continued to June 7t 4 MR. BROOKS: Okey-doak. 5 EXAMINER JONES: And we'll break for lunch. 6 (Thereupon, these proceedings were concluded at 7 11:58 a.m.) 8 * * * 9 * * * 10 * * * 11 * * * 12
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6 (Thereupon, these proceedings were concluded at 11:58 a.m.) 8 *** 9 10 11 12 13 14 15 16 (de hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No, heard by me on, Examiner
7 11:58 a.m.) 8 * * * 9 * * * 10 * * * 11 * 12 * 13 * 14 * 15 * 16 * complete record of the proceedings in the Examiner hearing of Case No
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16 I do hereby certify that the foregoing is 16 a complete record of the proceedings in 17 the Examiner hearing of Case No 18
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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 May 29th, 2007.

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STEVEN T. BRENNER CCR No. 7

My commission expires: October 16th, 2010

STEVEN T. BRENNER, CCR (505) 989-9317