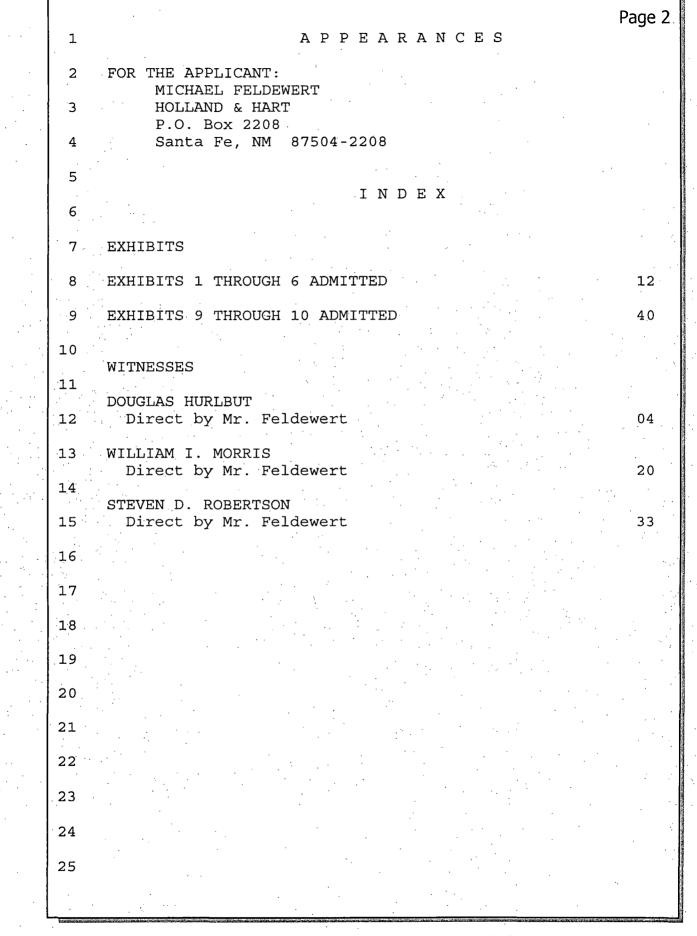
Page 1 1 STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION 2 3 4 IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR 5 THE PURPOSE OF CONSIDERING: 6 CASE: 14738 14739 7 APPLICATION OF EOG RESOURCES INC., FOR SIMULTANEOUS 8 DEDICATION AND AN EXCEPTION TO THE SPECIAL RULES AND 9 REGULATIONS FOR THE RED HILLS-Bone Spring POOL, LEA COUNTY, NEW MEXICO. 10 11 12 13 REPORTER'S TRANSCRIPT OF PROCEEDINGS EXAMINER HEARING 14 September 29, 2011 Santa Fe, New Mexico 15 16 WILLIAM V. JONES, Technical Examiner BEFORE: 17 DAVID K. BROOKS, Legal Examiner 18 This matter came on for hearing before the New 19 Mexico Oil Conservation Division, WILLIAM V. JONES, Technical Examiner, and DAVID K. BROOKS, Legal Examiner, on September 20 29, 2011, at the New Mexico Energy, Minerals and Natural Resources Department, 1220 South St. Francis, Drive, Room 21 102, Santa Fe, New Mexico. 22 23 REPORTED BY: Irene Delgado, NM CCR 253 24 Paul Baca Professional Court Reporters 500 Fourth Street, NW, Suite 105 25 Albuquerque, New Mexico 87102



Page 3 EXAMINER JONES: Let's call a couple of cases 1 together, I think. 2 MR. FELDEWERT: Yes. 3 EXAMINER JONES: Case 14738 and Case 14739, both of 4 them appear to be applications of EOG Resources Incorporated 5 for simultaneous dedication and an exception to the special 6 rules and regulations for the Red Hills-Bone Spring Pool in 7 Lea County, New Mexico. Call for appearances. . 8 MR. FELDEWERT: If it please the Examiner, Michael 9 Feldewert with the Santa Fe office of the law firm of Holland 10 & Hart appearing on behalf of the EOG Resources Inc., and I 11 have three witnesses here today. 12 EXAMINER JONES: Any other appearances? 13 14 (No response.) 15 EXAMINER JONES: Will the witnesses please stand and 16 state your names. 17 MR. HOLDER: Douglas W. Hurlbut. MR. ROBERTSON: Steven D. Robertson. 18 MR. MORRIS: William J. Morris. 19 EXAMINER JONES: Will the court reporter please 20 swear the witnesses. 21 (Oath administered.) 22 23 24 25

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1	Page 4 DOUGLAS HURLBUT
2	(Having been sworn, testified as follows:)
3	DIRECT EXAMINATION
4	BY MR. FELDEWERT:
5	Q. Would you please state your full name for the
6	record?
7	A. Douglas W. Hurlbut.
. 8	Q. By whom are you employed and in what capacity?
9	A. EOG Resources, as petroleum landman.
LO	Q. Mr. Hurlbut, have you previously testified before
.1	this Division?
12	A. Yes, I have.
13	Q. Were your credentials as a petroleum landman
14	accepted and made a matter of public record?
15	A. Yes, they have.
16	Q. Are you familiar with the two applications that EOG
17	has filed in these consolidated cases?
18	A. Yes, I am.
19	Q. Are you familiar with the status of lands in the
20	subject area?
21	A. Yes, I am.
22	MR. FELDEWERT: Mr. Examiner, I would tender
23	Mr. Hurlbut as expert witness in petroleum land matters.
24	EXAMINER JONES: So qualified.

Page 5 what you seek under these two applications? 1 First seek a plan of development for the area, and 2 Α. we also are seeking permission to drill numerous horizontal 3 wells in the Leonard Shale -- Leonard Shale in the Red Hill-4 5 Bone Springs Pool as depicted on these two areas that we have here outlined in red. 6 Now, you have two separate spacing units identified 7 Q. in red on the plat, correct? 8 9. Α. Correct. 10 Q. How many acres is comprised into these two stand-up. proposed spacing units? 11 12 Α. 440 acres in each. Do you intend to dedicate each spacing unit to the 13 Q. three wells identified on the plat? 14 15 Α. Yes, we do. What are your current horizontal drilling plans for 16 Q. the Leonard Shale portion of the Red Hills-Bone Springs Pool? 17 How far apart do you intend to space these wells? 18 A. Okay. Well, we are on doing an 880-foot spacing. 19 Q. And is your target the Leonard Shale portion of the 20 Bone Springs Pool? 21 A. Yes, it is. It is a shale. 22 And where is that -- to your knowledge, where is 23 Q. . that located within the geology of the Bone Springs 24 25 Formation?

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		Page	6
• . •	1	A. At about 9,000 feet.	
	2	Q. Do you have a geologist that's going to confirm that	±
· ·	3	the shale is the top of the formation?	•
	4	A. Yes, we do.	
	5	Q. Is there a possibility, Mr. Hurlbut, that, as you	• •
	6	proceed with your development of this acreage, that you may	. '
	[.] 7	add additional horizontal wells at some point in time if	
	8	that's deemed necessary?	
	9	A. It's possible.	
· · · · ·	10	Q. But at this point, though, you plan on drilling	
	11	three wells in each spacing unit 880 feet apart?	.
	12	A. Correct.	. ·
	13	Q. Is the area that's at issue here subject to special	ч. н.
	14	pool rules?	
	15	A. Yes, they are.	
	16	Q. And they have been marked as EOG Exhibit Number 2?	
	17	A. Yes, they have been.	.
· · ·	18	Q. And what is the what are the exceptions that you	• •
	19	seek for purposes of these wells from these special pool	
	20	rules?	
•	21	A. Well, we want to basically have an increased density	Υ
	22	and be able to have overlapping project areas.	•
	23	Q. So if I look at the current pool rules, they require	3
	24	80-acre spacing, correct, under Rule 2?	
	25	A. Correct.	
•			

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	Page 7 1 Q. And if I then look at Rule 2 under the special pool
	2 rules, they, at this time, only allow one well per quarter
	3 quarter section?
	4 A. That's correct.
•	5 Q. And then under Rule 4, is it not true that each well
	6 is required to be no closer than 330 feet to any governmental
10 A.	7 quarter quarter section?
•	8 A. That's correct.
	9 Q. Were these this Exhibit 2 reflects that these
	10 pool rules were enacted first in 1994 and then amended in
•	11 1995.
	12 A. That's right.
	13 Q. At that point in time, Mr. Hurlbut, was EOG or
	14 anyone else drilling wells in the Leonard Shale portion of
	15 the Bone Springs Formation?
	16 A. No, they were not.
	17 Q. Now, if I then look back at your development plan
	18 here with the Leonard Shale portion of the Bone Springs
. •	19 Formation, you need an exception to these special pool rules,
	20 do you not?
	21 A. Yes, we do.
	22 Q. In fact, if I look at your plat here and I look at
• • •	23 the southwest quarter of the northwest quarter, it would
	24 appear that you are going to have a total of three wells in
	25 that particular quarter quarter section?

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	1	A. That's correct.
	2	Q. Okay. And then since you are doing horizontal
	3	wells, internally the horizontal wells are not going to
	4	comply with the internal 330-foot setbacks?
	5	A. That's correct.
	6	Q. All right. Will the producing interval of your
	7	proposed horizontal wells remain at least 330 feet from the
	8	outer boundary of your designated spacing unit?
	9	A. Yes, they will be.
	10	Q. If I turn to Exhibit Number 3, is that does that
	11	identify the current footage locations for your proposed
	12	wells?
•	13	A. Yes, it does.
	14	Q. And did you meet with the BLM for purposes of
	15	developing these surface locations for these wells?
•	16	A. Yeah. We met with BLM, and of the six locations
	17	here, we had to change five of them.
	18	Q. I know, for example, the Dillon Fed Com Number 3H
	19	has a surface location of 580 feet from the north line?
	20	A. Correct. And the reason for that, there was surface
	21	reasons for for moving all five of the six pipelines or
	22	roads, and on that particular one there is a caliche pit, I
	23	think it was. That's the reason we had to move it south of
	24	the caliche pit.
	25	Q. But for each of these six wells your penetration
	.	

Page 9 1 point is going to remain 330 feet from the outer boundary of the spacing unit? 2 That's correct. 3 Α. Now, if I look back at EOG Exhibit Number 1, it 4 Q. ' shows, Mr. Hurlbut, an existing horizontal well in the north 5 half of Section 6. 6 7 Α. Correct. And you have outlined the spacing unit and project 8 Q. area in green? 9 10 Α. That's correct. It's labeled the Diamond 6 Federal Number 2. 11 Where 0. is that particular existing well completed? 12 13 In the Third Bone Springs Sand. Α. 14 And, to your knowledge, roughly, where is the sand Ο. portion of the Bone Springs formation in relation to the 15. 16 Leonard Shale portion? 17 Α. 12,000 feet. 18 0. And the Leonard Shale portion is where? 9,000. 19 Α. 20 Q. . Okay. 21 There is about a 3,000-foot difference. Α. And I know you are not a geologist and you're going 22 Q. 23 to have a geologist testify here today, but to your knowledge, is the Third Bone Springs Sand a different 24 producing interval from a shallower shale? 25

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		Page 10
	1	A. Yes, it is.
	2	Q. And since we then, we kind of circle back then, if I
	3	look at this map and I look at the southwest quarter of the
	4	northwest quarter, because of that existing well and new
	5	development plan, you actually have three wells completed in
	6	the Bone Springs Formation in that particular quarter
	7	section. Correct?
	8.	A. That's correct.
	9	Q. Or I should say quarter quarter section.
	10	A. Right.
	11	Q. Is that another reason why you need the exception to
• • •	12	the density requirements and special pool rules?
	13	A. That's correct.
	14	Q. Okay. Then did you identify, Mr. Hurlbut, and
	15	provide notice of this hearing to all of the known interest
•••	. 16	owners in the quarter quarter sections surrounding each of
	17	the 480-acre project areas?
	18	A. Yes, we did.
	19	Q. If I turn to Exhibit Number 4, which is an affidavit
	20	and notice letter for Case Number 14738, is that the notice
	21	that corresponds with the spacing unit as comprised of the
	22	west half of Section 31?
	23	A. Yes, it is.
	24	Q. And the northwest quarter of Section 6?
	25	A. Yes, it is.

	1	Page 11 Q. And then Exhibit Number 5, which is the affidavit
	2	and notice for Case 14739, does that correspond then with the
	3	spacing unit for the east half of Section 31 and the
	4	northeast quarter of Section 6?
	5	A. Yes, it does.
• .	6	Q. And on each of those exhibits, the third page
•	7	reflects, does it not, that you had addresses for each of the
	. 8	interest owners?
	9	A. Yes. Yes, we did.
· .	10 [.]	Q. Okay. Now, then to wrap this up, does Exhibit
	11	Number 6 contain the affidavits for the publication in the
	12	Lovington Leader for each of those cases?
	13	A. Yes, it does.
	14	Q. And does EOG intend to present a geologist and
	15	production engineer here today to further explain your
•. •.*	16	development plan?
· · ·	17	A. Yes, we do.
	18	Q. In your opinion, will the granting of this
	19	application be in the best interest of conservation, the
•	20	prevention of waste, and protection of correlative rights?
	21	A. Yes, it will be.
	22	Q. And were EOG Exhibits 1 through 6 prepared by you or
•	23	compiled under your direction and supervision?
· ·	24	A. Yes.
	25	MR. FELDEWERT: Mr. Examiner, I move into evidence
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		Page 12
	1	EOG Exhibits 1 through 6.
	2	EXAMINER JONES: Exhibits 1 through 6 will be
	3	admitted.
	4	(Exhibits 1 through 6 admitted.)
	5	MR. FELDEWERT: That concludes my examination of
	6	this witness.
	7	EXAMINER JONES: Okay. These you just want to
	· 8 ·	drill wells longer, horizontal wells, is that correct, rather
	9	than you don't want to hold it within one section?
•.	10	THE WITNESS: Yeah, our plan yeah. Our plans are
	11 ·	to drill longer horizontal wells, mile and a half.
	12	EXAMINER JONES: Instead of drilling some wells
	13	in in Section 6, lay down wells, you want to drill
	14	vertical I mean, you want to drill north-south wells?
	15	THE WITNESS: Correct.
	16	EXAMINER JONES: You want to drill six horizontal
	17	wells with the two units, is that correct?
	18	THE WITNESS: Correct.
	19	EXAMINER JONES: Two
	20	THE WITNESS: Two project area.
	21	EXAMINER JONES: Two project areas.
	22	THE WITNESS: Right.
	23	EXAMINER JONES: Now, didn't BLM form any kind of
	24	units for these, or did they just approved your wells, but
	25	did you go to them for any kind of unitization on this?

1	THE WITNESS: No. Page 13
2	EXAMINER JONES: Okay. Is it
3	THE WITNESS: We're not really forming a unit.
4	EXAMINER JONES: You are definitely not forming two
5	units here, or even one unit, but what about ownership within
6	the Section 31 and Section 6?
7	THE WITNESS: There are other owners involved in
8	that in those particular areas.
9.	EXAMINER JONES: There is is there a difference
10	of ownership between Section 6 and Section 31?
11	THE WITNESS: Yes, there is. What we are going to
12	do is to establish a unit operating agreement, and have
13	everybody sign up under a unit operating agreement on the
14	spread of their interest, so we are going to do that.
15	EXAMINER JONES: Okay. And you anticipate everybody
16	will sign on?
17	THE WITNESS: Yeah.
18	EXAMINER JONES: Because you didn't ask for
19	compulsory pooling here.
20	THE WITNESS: No, we didn't do that, but I'm
21	anticipating that everybody will sign on. I don't think
22	there is going to be anybody that's not.
23	EXAMINER JONES: And is this still still oil,
24	even 3,000 feet deeper? Expecting oil wells?
25	THE WITNESS: Oh, yes, yes.

		Page 14
	1	EXAMINER JONES: And that existing well, did it
	2	is that the green outline on exhibit
	3	THE WITNESS: What that is, that's the project area
	4	for that particular well. It's a 240-acre project for that
	5	particular well.
•	6	EXAMINER JONES: Okay. So it excluded the east half
	7	of the northeast quarter?
	8	THE WITNESS: Correct. Correct.
	9	EXAMINER JONES: And why was that? Do you know why?
	10	THE WITNESS: I'm not sure.
	11	MR. FELDEWERT: Mr. Examiner, if I may, the special
	12	pool rules require 80-acre spacing units for these wells, so
	13	basically these are stacked 80-acre units, and that's why you
	14	have, for example, that
	15	EXAMINER JONES: Okay.
· · · · ·	16	MR. FELDEWERT: that particular 80 acres perhaps
	17	excluded, but they could still develop that.
	18	EXAMINER JONES: So that is an oil well?
•	19	THE WITNESS: Correct.
	20	EXAMINER JONES: Okay. That's an oil well in the
	21	Red Hills-Bone Springs pool?
:	22	THE WITNESS: Pool. And it's in the sand, the
	23	Second Bone Springs Sand.
ŕ	24	EXAMINER JONES: And it's in the sand?
	25	THE WITNESS: Right.
· .		

		Page 15
	1	EXAMINER JONES: And it's still producing?
	2	THE WITNESS: Correct.
	3	EXAMINER JONES: So it's still going to maintain
	4	its but it's a different 3,000 foot
	5	THE WITNESS: Yeah, a difference of about 3,000
	6	feet.
	7	EXAMINER JONES: Okay. So you've got several
	8	exceptions you are asking for here. Just about everything in
	9	that Red Hills special pool rule is being so basically, as
	10	far as the same dedication, all the notices went out to
	11	everyone surrounding
	12	THE WITNESS: Correct.
•	13	EXAMINER JONES: this acreage?
	14	THE WITNESS: Correct.
	15	EXAMINER JONES: And you have not received were
	16	you able to locate everybody?
	17	THE WITNESS: I think it went out to everybody. I
	18	think there was one green card that didn't come back, and
	19	that was from Chevron. Why it didn't come back from Chevron,
	20	I don't have any idea. But that's their address we have used
	21	in the past, so we operate most of that area in there,
	22	so so what we did, we sent out notices we sent out
	23	notices to the non-operators as well.
	24	EXAMINER JONES: Okay. Did the BLM have any other
	25	comments or restrictions?

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		Page 16
	1	THE WITNESS: Not that I know of.
	2	EXAMINER JONES: That you know of?
	3.	THE WITNESS: No.
	4	EXAMINER JONES: I have no more land questions.
•	5	EXAMINER BROOKS: Okay. Is this private land,
	6	federal land, state land?
· . ·	7	THE WITNESS: It's a combination. Over there in 31,
<i>,</i> .	,8	the east half of 31 is fee, and the rest of the land is
	9	federal. The north half of 6 and west half of 31 is all
	10	federal.
	11	EXAMINER BROOKS: Okay. So you would anticipate
•	12	you said you were going to unitize it at a later date, and
	13	you indicated that you got all you have all the working
	14	interest owners committed?
	15	THE WITNESS: Well, we don't have them we don't
	16	have them committed at this point, but I think we will. I
	17	don't see a problem with it.
	18	EXAMINER BROOKS: So you would anticipate then that
	19	you are going to do a com agreement?
•	20	THE WITNESS: Yes, we will be doing a com agreement
	21	on this. It will be communitizing in the west half,
• .	22	communitizing these two federal leases, and, in the east
	23	half, the fee with the federal.
	24	EXAMINER BROOKS: And there is no state land
	25	involved?

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		Page 17
	1	THE WITNESS: There is no state land involved.
	2	EXAMINER BROOKS: Okay. Very poorly drafted rule
	3	provision. No more questions.
	4	EXAMINER JONES: I have one more question. The Red
	5	Hills-Bone Spring Pool, does that encompass all of this area
	6	and all surrounding areas?
	7.	THE WITNESS: Well, I don't know for sure exactly.
	8	I think, when it was established, that Red Hill-Bone Springs
	9	Pool was established for the Red Hills unit that EOG or Enron
	10	or not Enron, but HNG had put together, that was
	11	established for that for the Third Bone Springs, and there's
	12	been other wells that we've drilled out there, development
•	13	wells, and I guess they are utilizing that Red Hills-Bone
. •	14	Springs Pool, so I don't
•	15	EXAMINER JONES: So the vertical limits of it
	16	include all the Bone Springs?
	17	THE WITNESS: Correct. And I think that's why this
	18	one is kind of in that pool, because it's right next door to
	19	the unit.
	20	MR. FELDEWERT: Mr. Examiner, I think it's within a
	21	mile of the pool boundary.
•	22	EXAMINER JONES: So we either contract the pool and
	23	create a new pool so you can do this development, or we get
•	24	exceptions every time you want to drill?
	25	THE WITNESS: Well, either that, or just amend the

	1	Page 18 rule to allow for drilling horizontal wells into the shale,
	2	because these are going to be, you know, shale wells and not
	3	sand wells.
	4	EXAMINER JONES: Yeah, there's
	5	THE WITNESS: Because we plan on drilling a bunch of
	6	shale wells in there.
	7	EXAMINER JONES: A bunch of them?
	8	THE WITNESS: Yeah, several of them. At least these
	9.	six and some more.
1	.0	EXAMINER JONES: Some more.
1	.1	THE WITNESS: We plan on drilling in this area.
1	.2	EXAMINER JONES: How many other working interest
1	.3	owners do you think would be in this pool? In other words,
1	4	the exist well, I take that back. Not working interest
1	.5	owners, but operators in the Red Hills-Bone Spring Pool, you
1	6	would have to work with them to get the pool rules
1	.7	THE WITNESS: I think that that's the operator in
1	8	most cases is going to be EOG.
1	9	EXAMINER JONES: Yeah.
2	0	THE WITNESS: Because we own most of that acreage in
2	1	there. We do have some, you know, non-operators we are
2	2	the operator. We have some non-ops with us on some of these
2	3	wells.
2	4	EXAMINER JONES: You just have to work with the
2	5	operators of the pool plus the

		Page 19
	1	THE WITNESS: Right.
	2	EXAMINER JONES: a mile around.
·	3	THE WITNESS: Right.
	4	EXAMINER JONES: I have no more questions.
	5	EXAMINER BROOKS: I do have another question I
	6	forgot. I think I understood this, but I want to be sure I'm
	7	correct. Are the did I hear you say that the penetration
	. 8	points of all of these wells, that is, where they intersect,
	9	where the wellbore will intersect the top of the Bone Spring
	10 .	Formation is within the setbacks?
	. 11	THE WITNESS: Yes.
	12	EXAMINER BROOKS: Yeah, because all right. Our
· . · ·	13	present rules we work from the where they intersect the
	14	top of the Bone Spring Formation, not where they intersect at
	15	the top of the shale where it's going to be producing from,
	16	so I wanted to make it clear that you are going to be within
	17	the setbacks and you're not going to need non-standard
	18	locations for those wells.
	19	EXAMINER JONES: I think that would mean that the
	20	vertical that the well would have to be spotted within 330
	21	of the boundary. Do you know if that's the case?
	22	THE WITNESS: Well, the actual surface locations?
	23	EXAMINER JONES: Well, you've got them in here.
	24	MR. FELDEWERT: We do, and we have a
	25	EXAMINER JONES: Yeah, these are two of them
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	1	are ac	tually four of them are.
	2		MR. FELDEWERT: We have an engineer that will
	3	testify.	
· · · · ·	4	· · ·	EXAMINER JONES: Okay.
· · · ·	5		MR. FELDEWERT: I have no further questions.
	6		EXAMINER JONES: Okay. Thanks a lot.
	7		THE WITNESS: Okay.
	8	·	MR. FELDEWERT: Our next witness.
	9		WILLIAM J. MORRIS
	10		(Having been sworn testified as follows:)
	11		DIRECT EXAMINATION
	12	BY MR. FE	LDEWERT:
	13	Q.	Would you please state your name for the record?
	14	А.	William J. Morris.
	15	Q.	By whom are you employed and in what capacity?
	16	Α.	EOG Resources. I'm a petroleum geologist.
	. 17	Q.	Have you previously testified before this
	18	Division?	
	19	Α.	Yes, I have.
	20	Q.	Were your credentials as a petroleum geologist
	21	accepted	and made a matter of record?
	22	Α.	Yes, they were.
	23	Q.	Are you likewise familiar with the applications
	24	filed by	EOG in these consolidated cases?
	25	Α.	Yes.
· .			

	Page 21
	1 Q. Have you conducted a study of the lands that are the
	2 subject of this application?
· .	3 A. Yes, I have.
	4 MR. FELDEWERT: I would tender Mr. Morris as an
	5 expert witness in petroleum geology.
	6 EXAMINER JONES: He is so qualified.
•	7 Q. Mr. Morris, before we get to any more exhibits,
	8 would you just generally outline for the Examiners the
	9 various producing intervals in the Bone Springs Formation in
	10 this subject area.
	11 A. Okay. In this two or three township area, the Bone
	12 Spring Formation produces from the Third Bone Spring Sand
	13 which is near the base of the formation. Also the Leonard
	14 Shale produces from some horizontal wells, and that's located
	15 near the top of the formation.
	16 Q. And what depth are the sands versus the shale?
	17 A. The Third Bone Spring Sands are at an approximate
	18 depth of 12,000 feet, and the Leonard Shale is at a depth of
	19 approximately 9,000 feet.
	20 Q. And has EOG drilled horizontal wells both in the
	21 deeper Bone Spring Sand as well in separate wells in the
:	22 shallower Leonard Shale area?
. ·	23 A. Yes, they have.
	Q. If you then turn to pull out or turn to and pull
	25 out what's been marked as EOG Exhibit Number 7. Would you

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Page 22 first identify this exhibit, and then also describe where EOG 1 2 has drilled both horizontal wells in the sand and then separate horizontal wells in the shallower Leonard Shale. 3 Okay. This is a structure map. A. · 4 Why don't you hold off one minute? 5 Q. (Pause.) 6 7 0. Go ahead. This is a structure map over the Red Hills area that 8 Δ is on the top of the Bone Spring Formation. The red outline 9 is our Red Hills unit that EOG operates. The subject wells 10 11 are located just north of that red outline in Section 31 and Section 6. 12 Are those wells identified in green? 13 ο. The horizontal wells that we propose to 14 · A. Right. 15 drill are shown with green laterals on them. The wells that 16 are highlighted brown are wells that produce from the Third Bone Spring Sand, and the wells that are highlighted with 17 green outlines are those wells that we have drilled producing 18 19 from the Leonard Shale. So if I look at this map up there in the north half 20 Ο. of Section 6, there is a well in brown in the northwest 21 quarter of Section 6, that is the Diamond 6 Federal Number 2 22 that we talked about the existing wells, correct? 23 That is correct. 24 Α. As completed in the sand? 25 Q. .

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Page 23 As completed in the Third Bone Spring Sand. 1 Α. 2 Ο. And there is a blue line here that corresponds with the cross section, and we will get to that here in a minute, 3 4 but if I follow that line south, I get down to an area then 5 that has a -- looks like a blue shading or green --Yes, light green shade. 6 Α. 7 0. Light green. What does that depict? That's our Lomas Rojas project area where we drilled 8 Α. 9 a number of Leonard Shale wells on somewhat different spacing 10 in there. 11 0. Okay. And in your Lomas Rojas project area, that's down in Section 26? 12 Right. 13 Α. O. Of 25 South 33 East? 14 15 Α. Correct. 16 Now, in that particular area, you said you drilled Q. wells in the Leonard Shale portion of the Bone Springs 17 Formation? 18 A. That is correct, yes. 19 Is that the same target area as the proposed 20 Q. horizontal wells? 21 A. Right. It's the same zone that we intend to drill 22 23 north of the --Okay. Is the geology of the Bone Springs Formation 24 Q., consistent throughout this subject area? 25

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	1	Page 24 A. Yes, I have a cross section that will show that the
	2	zones are continuous throughout the entire area.
	3	Q. Okay. If we then leave this map out, turn to EOG
	4	Exhibit Number 8, and pull that out, why don't you identify
	5	EOG Exhibit Number 8 for the Examiners.
	6	A. This is a three well cross section that depicts the
	[.] 7	entire Bone Spring Formation in this area. The first well on
	8	the left is the Lomas Rojas 26 State Number 4 Well. It's
<u>.</u>	9	located in the very south part of the map. The second
	10	Q. Let me the map being Exhibit Number 7?
•	11	A. Being Exhibit Number 7, correct.
	12	Q. So looking at Exhibit Number 7 down in Section 26
	13	where the green wells are, and that's the start of your cross
	14	section?
	15	A. Right. The well that's highlighted with a blue line
	16	that extends from it towards the north.
	17	Q. Okay.
	18	A. The second well of the cross section is the well in
	19	Section 6 that was drilled in the third it's the pilot
	20	hole for the well that was drilled laterally in Section 6 in
	21	the Third Bone Springs Sand, and it's the Diamond 6 Federal
	22	Well.
	23	The last well to the right is the Morrow, it's the
	24	Deep Morrow Well that was drilled in Section 31, and it shows
	25	the entire Bone Spring Formation there. The cross section
	· . ·	

Page 25 further highlighted in brown at the base, the Third Bone 1 Spring Sand Pay, that has been drilled throughout the Red 2 Hills unit, this log is very representative of those. 3 And on the upper part is the Leonard Shale, and you 4 can see that the shale characteristics carry across the 5 entire region, and our target zone is shown in green there. 6 Is there a continuity throughout the area of these 7 Ο. producing zones? 8 Yes. The Third Bone Spring Sand is continuous 9 Α. throughout the Red Hills area. And the shale, to my 10. knowledge, encompasses the entire mapped area on here. 11 It's continuous throughout the area. 12 Is there communication of these -- expected 13 0. communication between the Bone Spring Sand producing interval 14 15 and Bone Spring Leonard Shale producing interval? No. They have totally different producing 16 Α. properties. 17 And do you expect any of the -- from a geologic 18 Q. standpoint -- any characteristics of these zones, are they 19 20 completely different? Yes. They would be -- well, the upper one is a 21 Α. shale unit, and it's very tight. And the other unit, the 22 Third Bone Spring Sand is a -- it's an older pressure sand 23 24 zone. Then just for the record, in your opinion, 25 Ο. Okay.

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	1	Page 26 will that existing well that's up there in the north half of
	2	Section 6 completed in the Third Bone Springs Sand, that's
	· 3	not going to drain from the Leonard Shale portion of the Bone
	4	Springs Formation, correct?
	5	A. I don't think it possibly could.
	. 6	Q. Okay. In your opinion, then, are separate
	7	horizontal wells needed in this area to recover the reserves
	.8	in the shale?
	9	A. Yes, they are.
	10	Q. Is EOG presenting a production engineer to discuss
	11	the results of your horizontal drilling program in the
	12	Leonard Shale portion of the Bone Springs Formation down here
	13	if the Lomas Rojas study area?
	14	A. Correct. We have an engineer present.
·	15	Q. And that's the area down here in Section 26 that was
	16	the start of your cross section?
	17	A. Right.
	18	Q. Okay. Almost finished here. In your opinion, are
	19	the results that EOG observed down here in Section 26 in the
	20	Lomas Rojas study area, are the results of that of those
,	21	wells applicable to the area that is the subject of the
	22	application up there in Section 31 and Section 6?
	23	A. We believe the geological parameters that are
	24	present down in Section 26 will be very similar to that in
	25	Section 31 to the north.

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l	Page 27 Q. Okay. Will the granting of EOG's application here
2	be in the best interest of conservation and the prevention of
3	waste and protection of correlative rights?
4	A. Yes.
5	Q. Were EOG Exhibits 7 and 8 prepared by you or
6	compiled under your direction and supervision?
. 7	A. Yes, they were.
8	MR. FELDEWERT: That completes my examination of
9	this witness.
10	EXAMINER JONES: Okay. So really there is not
11	much there is not much vertical separation between the top
12	of the Bone Spring and the target interval?
13	THE WITNESS: Right. That's right. It's right at
14	the very top.
15	EXAMINER JONES: At the very top.
16	THE WITNESS: I think that answers the question that
17	you had asked earlier.
18	EXAMINER JONES: Yes. And Mr. Brooks had asked,
19	too. We don't look we always look at the wells, the plans
20	for the wells, and you have those plans for those wells in
21	your probably your proposal to the BLM and to Mr. Dillon
22	or whatever the
. 23 [.]	THE WITNESS: I'm sure they are.
24	EXAMINER JONES: Yeah, they are probably in our
25	files. We'll find them one way or the other.

Page 28 1 MR. FELDEWERT: If not, we can get them to you. EXAMINER JONES: Okay. And this is pretty big --2 and you call this Leonard target zone, and this is Leonardian 3 Age Permian, but is that the -- is that what the geologists 4 are going to call the shale in the Bone Spring there? 5 THE WITNESS: I think a lot of companies may call it 6 Avalon Shale, whatever. I mean, our company calls it Leonard 7 Shale, that's what we've always called it, so that's pretty 8 much, I quess, the name we are sticking with. 9 EXAMINER JONES: Where is this area part of the 10 country located? Is it close to Maljamar or something? 11 THE WITNESS: I think it's closer to Jal. 12 It's in 13 the south part of --EXAMINER JONES: So south of Lea County? 14 THE WITNESS: Yeah, very south part of Lea County. 15 You're about 12 -- 15 miles north of the state line, 16 17 something like that. EXAMINER JONES: Okay. But south of jail -- Jal? 18 19 THE WITNESS: I think so. It's, I think it's a little --20 MR. FELDEWERT: We have --21 THE WITNESS: A little to the west of Jal. 22 23 MR. FELDEWERT: We have roughly 20 miles west of Jal. Did you say Jal or jail? 24 EXAMINER JONES: Jal. That's a Freudian slip. 25

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		Page 29
	1	MR. FELDEWERT: I called it Leonid Shale, but they
	2	corrected me.
•	3	EXAMINER JONES: This, within this this is about
	4	100-foot zone you have located here.
	5	THE WITNESS: Right.
	6	EXAMINER JONES: Where are you going to drill your
	7	well?
	8	THE WITNESS: I think they are going to drill it in
	. 9	the just near the middle part of it, but just in the lower
	10	part of the middle section.
	11	EXAMINER JONES: You've got markers there that you
•	12	look at?
•	.13	THE WITNESS: Yeah, there's a couple of little line
	14	markers in there, and, you know, we run gamma ray as we drill
	15	through it, so we can keep a pretty good stab as to where
	16	we're at.
• ,	17	EXAMINER JONES: I knew there is a new tool that you
	18	can use it to look further. Do you use that?
•	19	THE WITNESS: We have not used that, no.
	20	EXAMINER JONES: And your gamma ray is still 30 feet
	21	back from the bit.
	22	THE WITNESS: Yeah. I think it's probably more like
	23	40, 45.
	24	EXAMINER JONES: After a stabilizer?
	25	THE WITNESS: Right.

Page 30 EXAMINER JONES: And all of this zone below --1 2 between this, this big shale and the traditional Third Bone 3 Springs Sand is not productive? THE WITNESS: It's not productive in this area. 4 It is productive in other parts of the county. 5 EXAMINER JONES: Of the county? 6 THE WITNESS: Yes. To the north, up south of Lovington, whatever the first Bone Spring Sand produces, the 8 9 Second Bone Spring Sand produces up in there. EXAMINER JONES: Okay. 10 THE WITNESS: And actually some of these carbonates 11 in between also produce. 12 EXAMINER JONES: Okay. 13 THE WITNESS: So the whole section does produce 14 15 somewhere in the county, but in this particular area --EXAMINER JONES: You are not seeing shows when you 16 drill on the wells that drill through it. 17 18 THE WITNESS: I'm not familiar with all of that. Ι. 19 think we have seen some of shows, but it's not as prospective 20 as the zones that we are drilling now. EXAMINER JONES: Yeah. It seems you pretty much 21 testified this is a different source of supply than -- or 22 . what we call a different pool than --23 THE WITNESS: Well, it's definitely a different 24 25 pool, I think.

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Page 31 EXAMINER JONES: Yeah, it should be. 1 THE WITNESS: Yeah. 2 EXAMINER JONES: And that horizontal well you 3. drilled in the Third Bone Spring Sand was not any good? 4 · THE WITNESS: No. It -- the Third Bone Spring Sands 5 down there are very, very good. 6 · EXAMINER JONES: So horizontal wells, you showed us a horizontal well that was drilled in that -- in Section 6? 8 ·9. THE WITNESS: Yeah. We developed those, you know, 10 ten -- ten years ago or so. EXAMINER JONES: Oh. And you drilled that one 11 east-west, didn't you? 12 THE WITNESS: A lot of those Third Bone Spring wells 13 14 we drilled were largely east-west, correct. EXAMINER JONES: And now you want to go north-south. 15 16 THE WITNESS: Yeah, the Third Bone Spring Sand is a little bit more limited just because it's a sandstone the way 17 it's deposited. The shale covers the whole basin or the 18 entire part of this area. 19 20 EXAMINER JONES: So was it a geologic decision or a land decision to drill north-south versus east-west? 21 22 . THE WITNESS: I wasn't involved in that. I think it's largely based on the regional pressure trends and 23 stuff --24 25 EXAMINER JONES: There you go. There you go.

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Page 32 THE WITNESS: -- that we are looking at. 1 EXAMINER JONES: Well coached witness here. 2 Okay. Let's -- I guess I better not ask any more questions. 3 4 Mr. Brooks? EXAMINER BROOKS: Well, the term "pool" is a legal 5 6 term, as it's used in the OCD, so when you were saying -- I wasn't sure totally what you were saying was a different pool 7 from what else, but I thought you were suggesting that the 8 · 9 shale and the Bone Spring Sands were a different pool than the generic sense of that term. Is that what you were 10. 11 . saying? THE WITNESS: Yeah, they are different reservoirs. 12 EXAMINER BROOKS: Right. In other words, they are 13. not in communication with each other in terms of movement of 14 the hydrocarbons? 15 16 THE WITNESS: Correct. EXAMINER BROOKS: Which is the way the term "pool" 17 18 is supposed to be used, but at the same time we have a classification system, and they are in the same pool under 19 20 our classification system. 21 THE WITNESS: Right. You are correct. 22 EXAMINER BROOKS: Just wanted to clarify. No 23 further questions. 24 MR. FELDEWERT: Mr. Examiner, I would like to leave 25 EOG Exhibit Number 7 out, I don't think we will go back to

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	1	Page 33 Exhibit Number 8, and then I will call my next witness.
	2	STEVEN D. ROBERTSON
	3	(Having been sworn, testified as follows)
	4	DIRECT EXAMINATION
	5	BY MR. FELDEWERT:
	6	Q. Would you please state your name for the record?
	. 7	A. Steven D. Robertson.
,	8	Q. And by whom are you employed and in what capacity?
Ċ	9	A. EOG Resources. I'm a reservoir engineer.
• •	10	Q. Mr. Robertson, have you also previously testified
	11	before this Division?
	12	A. Yes, I have.
	13	Q. Were your credentials as a petroleum engineer
۰.,	14	accepted and made a matter of public record?
	15	A. Yes, they were.
•	16	Q. And are you likewise familiar with the applications
	17	that have been filed in these consolidated cases?
•	18	A. Yes, I am.
	19	Q. And you have conducted a study of the area that is
	20	the subject of this application?
	21	A. Yes, I have.
•	22	MR. FELDEWERT: I would tender Mr. Robertson as an
	23	expert witness in petroleum engineer.
	24	EXAMINER JONES: He is so qualified.
	25	Q. Mr. Robertson, I want you to turn back to Exhibit

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•	-	Page 34
	1	Number 1, EOG Exhibit Number 1. Is this the development plan
	2	that you put together for the Leonard Shale interval in the
	3	Bone Springs Formation?
	4	A. Yes, it is.
•	5	Q. Okay. And just to since you put this together,
	. 6	how far apart did you instruct that these wells should be
.	7	spaced to appropriately drain the Leonard Shale?
•	. 8	A. 880 feet.
•	9	Q. And what is the basis for this 880-foot drilling
	10	pattern in the Leonard Shale?
•	11	A. The basis is a pattern spacing test we conducted in
•	12	the Lomas Rojas section area of Section 26.
•	13	Q. So if I look at EOG Exhibit Number 7 down at Section
	14	26 and 25 South 33 East, there is a number of wells that have
. · ·	15	a green shading on there, is that your Lomas Rojas study
	16	area?
	17	A. Yes, it is.
•	18	Q. Okay. Before we get to that study was that was
	19	that study area that you discussed or that the company
	20	representatives discussed with the Division prior to
	21	implementing that project?
	22	A. Yes, it is.
	23	Q. Did company representatives come up and meet with
	24	the Division about this Lomas Rojas study area?
	25	A. Yes, they did.

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Page 35 Why did you conclude that the particular area here 1 Q. 2 down in Section 26 provided a good study ground for the Leonard Shale component of the Bone Springs Formation? 3 Because it has reservoir properties of porosity and 4 Α. oil saturation and thickness that are typical for this 5 Leonard Shale Formation all the way across this area. 6 Q. Would you then turn to -- leave Exhibit 7 out -turn to what's been marked as EOG Exhibit Number 9. And let 8. 9 me first ask you, is that then a close-up view of the same Section 26 and 25 South 33 East? 10 Yes, it is. 11 Α. So this is a slide of your Lomas Rojas study area? 12 Q. Yes, it is. 13 Α. Why don't you then explain what the company did in 14 0. 15 this particular study area section. In this section, we implemented a test in order to 16 · A. test different well spacings to see if these wells would 17 18. interfere with each other. And so you see Well Number 2H on that figure has an average spacing of about 1320 feet from 19 20 its adjacent wells. And then you will see Number -- Well Number 4H has an average spacing of about 880 feet from its 21 adjacent wells, and those -- those two wells are confined, so 22 they have that characteristic spacing. Of course you have 23 the in member wells that are unconfined on the east and west, 24 and so this was basically a test to see if we could squeeze 25

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		Page 36
	l	another well into each half section and not hurt our reserves
	2	on the adjacent wells.
	. 3	Q. Then if I turn to what's been marked as EOG Exhibit
	4	Number 10, does that depict the results of your study?
	5	A. Yes, it does.
	6	Q. This shows the estimated ultimate recoveries on
	7	these five wells. And these recoveries were normalized for
	8	treated well lengths, oil in place per section, foot, and net
	9	pay thickness, so basically trying to compare apples and
:	10	apples by normalizing for these small changes in these
	11	parameters.
	12	And you can see that the Well Number 2H has a
•	13	spacing, average spacing of about 1300 feet, and it's
•	14	recovery is about 165 MBO. The Well 4H has an average
	15	spacing of about 900 feet, and it has an estimated recovery
	16	of about 165 MBO. So by spacing these wells closer, we did
	17	not impact the reserves on the closer spaced well.
	18	Q. And based on this study, you have concluded that to
	19	adequately drain reserves, these wells should be spaced 880
	20	feet apart?
	21	A. Yes, that was our conclusion.
	22	Q. Which results in six wells per section?
	23	A. That's correct.
	24	Q. Okay. Are you concerned about waste if your
	25	proposed 880-foot spacing pattern is not followed by the

	1	Page 37 company in horizontal development of the Leonard Shale?
	2	A. Yes. We believe that by not drilling that extra
	3	well, we are basically not recovering about 165 MBO per half
	4	section. So in a standard-length well, if we can drill an
	5	extra two wells per section, that would be an extra 330 MBO
	6	per section.
	7	Q. As applied to the particular area that is the
	8	subject of our application, Section 31 in the north half of
	9	Section 6, what would you calculate to be the oil left in
	10	place if you didn't follow your path?
	11	A. Yeah, those wells are expected to be about 7,000
	12	feet long, so more reserves per well. So by drilling an
	13	extra two wells per section, in that section and a half we
	14	would gain an additional 576 MBO.
	15	Q. Okay. Now, I want to now turn just to a different
	16	topic, and the existing special pool rules which have been
	17	marked as EOG Exhibit Number 2. First, before we talk about
	18	them, in your opinion, as a production engineer, are the
	19	production characteristics in the sand interval of the
	20	Leonard Shale portion different from the production
	21	characteristics in the shallower shale portion of the Bone
	22	Springs Formation?
	23	A. Yes, they are. The sand is much more permeable and
	24	drains a much further distance than the shale does.
·	25	Q. From a production engineering standpoint, do you
	•	

	Page 38
1	look at the shale then differently from the sand?
2	A. Yes, we do.
3, ,	Q. Okay. Did you examine the record from the hearings
4 ·	that resulted in the adoption of the special pool rules for
5	the Red Hills Bone Springs Pool?
6	A. Yes, I did.
7	Q. Okay. And were the existing pool rules based on
8	drainage calculations and analysis that were that are
9	applicable to the sand component of the Bone Springs
10	Formation?
11	A. Yes, they were directed towards the sand.
12	Q. In your opinion, does that those drainage
13	calculations and analysis that resulted in these special pool
14	rules, are they applicable to the shale of the Bone Springs
15	Formation?
16	A. No, they are not.
17	Q. At the time that these rules were adopted in 1994
18	and 1995, was anyone drilling in a Leonard Shale portion of
19	the Bone Springs Formation, to your knowledge?
20	A. No, they weren't.
21	Q. In your opinion, are exceptions to both the density
22	and the internal setback requirements in these rules
23	necessary in order to adequately drain the reserves in the
24	Leonard Shale component of the Bone Springs Formation?
25	A. Yes.

· .	1	Page 39 Q. In your opinion, will waste occur if EOG is limited
	2	under these pool rules to two wells in an 80-acre spacing
	3	unit for the Leonard Shale development in these project
	4	areas?
	5	A. Yes.
	6	Q. In your opinion, how many wells I think you have
	•	
•	7:	already said you need at least three in each 480-acre project
	8	area to adequately drain?
	9	A. Yes. That's what we require.
	10	Q. And just to confirm this for the record, and there
	11	were some question about this, do your drilling plans for
	12	these horizontal wells, are they will they maintain the
	13	330 setback from the outer boundaries in each of these
· .	14	480-acre spacing units?
•	15	A. Yes. Those will be maintained, the penetration
· .	16	point of the Bone Springs.
· · ·	17	Q. In your opinion, is the granting of this application
· · ·	18	or these applications in the best interest of conservation
 	19	and prevention of waste and the protection of correlative
	20	rights?
	21	A. Yes, they are.
	22	Q. Were EOG Exhibits 9 and 10 prepared by you or
	23	compiled under your direction and supervision?
	24	A. Yes, they were.
	25	MR. FELDEWERT: Mr. Examiner, I move the admission

Page 40 of Exhibits 9 and 10. 1 EXAMINER JONES: Exhibits 9 and 10 will be admitted. 2 (Exhibits 9 and 10 admitted.) 3 MR. FELDEWERT: And that concludes my examination. EXAMINER JONES: Now, Mr. Robertson, I think mainly 5 what you have done here is reservoir engineering work? 6 THE WITNESS: Yeah. Production engineering is a 7 misnomer. It's more reservoir. That's my specialty. 8 9. EXAMINER JONES: So you would basically be doing the 10 predicting reserves and economics for these -- these wells? THE WITNESS: That's correct. 11. EXAMINER JONES: You had to sell it -- your team had 12 to sell it to the management. 13 14 THE WITNESS: Yes. 15 EXAMINER JONES: Already? 16 THE WITNESS: Yes. EXAMINER JONES: Probably. 17 18: THE WITNESS: Oh, yes. Yes. EXAMINER JONES: Was there a big difference in the 19 frac jobs on these -- within these various wells in Section 20 21 26? THE WITNESS: No. We tried to keep the fracs all 22 consistent so that we didn't have another variable affecting 23 . the EURs. 24 25 EXAMINER JONES: Was there a lot of water production

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1 with these, or --

2 THE WITNESS: Typically there is a fair amount of water production, about a 50 percent water cut, typically. 3 EXAMINER JONES: And what happens to it over time? 4 5 Does it go up? THE WITNESS: It stays about the same. Stays about 6 7 the same. EXAMINER JONES: Okay. So you basically -- no water 8 9 drive, in other words? THE WITNESS: Right. Yeah, it's possible. We don't 10 know for sure where the water is coming from, to be honest. 11 EXAMINER JONES: So insitu water? 12 THE WITNESS: Right. Some of it is insitu, some of 13 it is outside the zone of interest. 14 EXAMINER JONES: And you are not asking for 15 16 allowable modification for this area, you just want to stick with Rule 6 of the Red Hills? 17 18 THE WITNESS: Sometimes it very initially will produce more than that allowable. I mean, just for a few 19 20 days, if at all, but it -- it's not a problem, if we needed to reduce it initially. You know what I mean? 21 EXAMINER JONES: The allowable here is set for an 22 80-acre proration unit, standard proration unit, so that 23 would be --24 THE WITNESS: Right. Right. You could actually 25

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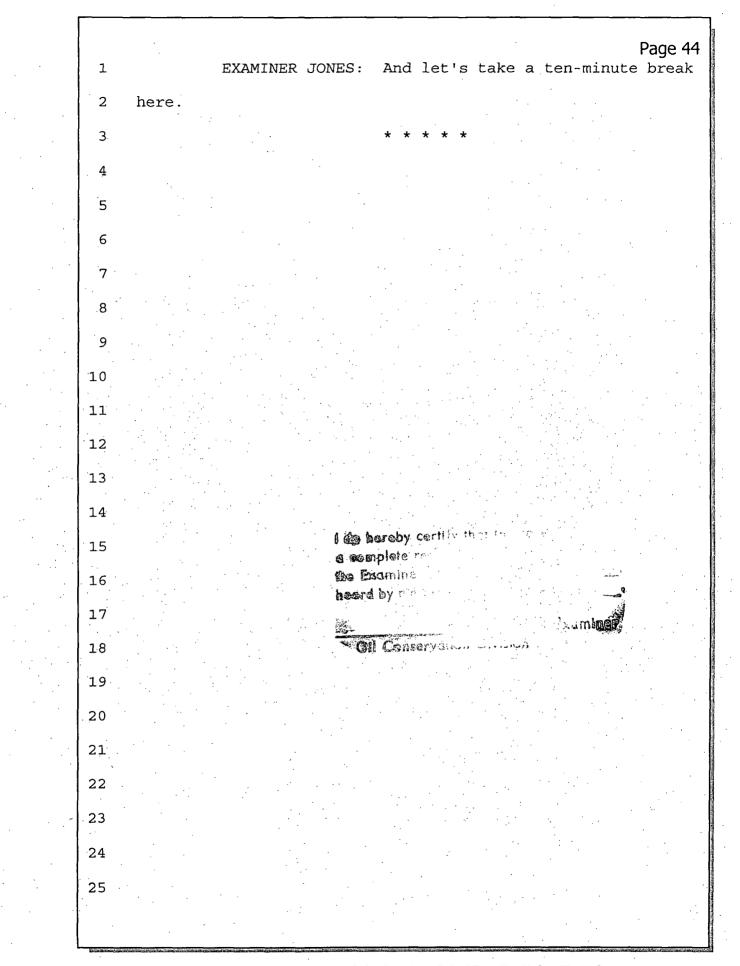
	-	Page 42
	1	multiply that up, so we wouldn't actually encroach on that
	2	allowable, that's true.
	3	EXAMINER JONES: What about the 2000 limiting GOR
	4	2000, but that would be times your maximum oil allowable
	5	anyway.
	6	THE WITNESS: Okay. Yeah, so that would probably be
	7	all right. Although this is a totally different animal, and
·	. 8	so it it's in some cases that GOR will will rise,
•	9	but if it's based on the original oil allowable, I think we
	10	will have plenty of room there for the GOR or for the gas
	11	production.
	12	EXAMINER JONES: What about the frac jobs you are
·	13	going to put on this new area, is it was it different than
	14	the ones that was done on Section 26?
	15	THE WITNESS: Essentially the same. I mean, we do
	16	continue to improve our technology, but it's essentially the
	17	same type of frac.
	18	EXAMINER JONES: How would the wells be completed, I
•	19	mean, as far as casings, and perforations, open hole or
	· 20	THE WITNESS: Yeah, we drill a five-and-a-half-inch
	21	casing around the curve and cement it in place, and then use
	22	plug and perfs to create this multistaged frac job and inject
	23	many several million pounds of sand to proppant.
	24 ·	EXAMINER JONES: So there will be some sand going in
	25	the frac job, it's not just a click water job.
	. •	

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Page 43 THE WITNESS: Yeah. Yeah. Definitely lots of sand, 1 2 yeah. EXAMINER JONES: Okay. Well, I don't have any more 3 4 questions. 5 EXAMINER BROOKS: I was referred to you by the land witness. I want to make sure that these wells are -- since 6 7 you are not asking for non-standard locations as such, I want to make sure that these wells are within the setback as per - 8 9 our definitions. And per our definitions, that depends on 10 the point where the wells ---11 THE WITNESS: Penetrate. 12. EXAMINER BROOKS: -- penetrate the top of the Bone Spring Formation. 13 14 THE WITNESS: Correct. Correct. 15 EXAMINER BROOKS: Is that point going to be, in each case, more than 330 feet from the outer boundaries of 16 THE WITNESS: Yes, it will be. 17 18 EXAMINER BROOKS: Okay. Thank you. MR. FELDEWERT: I have no further questions today, 19 and that concludes our presentation. 20 EXAMINER JONES: Okay. Thank you for coming in. 21 22 THE WITNESS: Thank you. EXAMINER JONES: Stay around tomorrow and see the 23 24 balloons. We'll take these cases, Case 14738 and Case 14739 under advisement. 25.

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		Page 45
	1	REPORTER'S CERTIFICATE
	2	
, i	3	I, IRENE DELGADO, New Mexico CCR 253, DO HEREBY
	4	CERTIFY THAT ON September 29, 2011, proceedings in the
	5	above-captioned cases were taken before me and that I did
	6	report in stenographic shorthand the proceedings set forth
	7	herein, and the foregoing pages are a true and correct
	8	transcription to the best of my ability.
	9	I FURTHER CERTIFY that I am neither employed by nor
	10	related to nor contracted with any of the parties or
	11	attorneys in this case and that I have no interest whatsoever
	12	in the final disposition of this case in any court.
· .	13	
	14	WITNESS MY HAND this day of October 2011.
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	18	Irene Delgado, CCR 253 Expires: 12-31-2011
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