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 BP AMERICA, INC., FOR AN EXCEPTION TO THE WELL DENSITY REQUIREMENTS FOR THE BLANCO-MESAVERDE GAS POOL, SAN JUAN COUNTY, NEW MEXICO CASE NO. 13,483

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REPORTER'S TRANSCRIPT OF PROCEEDINGS

EXAMINER HEARING

BEFORE: WILLIAM V. JONES, JR., Hearing Examiner

May 19th, 2005

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 19th, 2005, 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.

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STEVEN T. BRENNER, CCR (505) 989-9317 1

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APPEARANCES

FOR THE DIVISION:

GAIL MacQUESTEN Deputy General Counsel Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, New Mexico 87505

FOR THE APPLICANT:

HOLLAND & HART, L.L.P., and CAMPBELL & CARR 110 N. Guadalupe, Suite 1 P.O. Box 2208 Santa Fe, New Mexico 87504-2208 By: WILLIAM F. CARR

* * *

WHEREUPON, the following proceedings were had at
8:45 a.m.:
EXAMINER JONES: Okay, let's call Case 13,483,
which is the Application of BP America, Inc., for an
exception to the well density requirements for the Blanco-
Mesaverde Gas Pool, San Juan County, New Mexico.
Call for appearances.
MR. CARR: May it please the Examiner, my name is
William F. Carr with the Santa Fe office of Holland and
Hart, L.L.P. We represent BP in this matter, and I have
one witness.
EXAMINER JONES: Any other appearances?
Will the witness please stand to be sworn?
(Thereupon, the witness was sworn.)
BILL HAWKINS,
the witness herein, after having been first duly sworn upon
his oath, was examined and testified as follows:
DIRECT EXAMINATION
BY MR. CARR:
Q. Would you state your name for the record, please?
A. Bill Hawkins.
Q. Where do you reside?
A. In Denver, Colorado.
Q. By whom are you employed?
A. BP America Production Company.

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Q. And what is your position with BP America
Production Company?
A. I handle the regulatory affairs for Colorado New
Mexico San Juan Basin.
Q. Have you previously testified before the New
Mexico Oil Conservation Division?
A. Yes, I have.
Q. Have you appeared before Mr. Jones?
A. I have not.
Q. Could you summarize for the Examiner your
educational background?
A. I graduated from Texas Tech in 1972 with a degree
in petroleum engineering and then got my master's in
engineering in 1974 from Texas Tech.
Q. Since graduation, for whom have you worked?
A. I've worked for Amoco and subsequently BP since
graduation, so for about 30 years now.
Q. Are you familiar with the Application filed in
this case on behalf of BP?
A. Yes.
Q. And are you familiar with the rules for the
Blanco-Mesaverde Gas Pool that apply to the wells that are
the subject of today's hearing?
A. I am.
MR. CARR: Mr. Jones, we tender Bill Hawkins as

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an expert witness in petroleum engineering. 1 EXAMINER JONES: Mr. Hawkins is an expert witness 2 in petroleum engineering. 3 (By Mr. Carr) Would you briefly summarize for 4 0. the Examiner what it is that BP seeks with this 5 Application? 6 We're seeking an exception to the Blanco-7 Α. Mesaverde density rules that require -- well, actually 8 you're allowed four wells per spacing unit, and there are 9 some requirements for -- two of them can be in each quarter 10 section, and then there's another requirement that says 11 they can't be -- those two wells can't be located in the 12 same 40-acre quarter-quarter. And in this case, we ended 13 up with two wells in the same quarter-quarter, so we're 14 asking for an exception to that part of the density rule. 15 Would you identify what has been marked as BP 16 ο. Exhibit Number 1? 17 18 Α. Well, let's see. All right, yeah, this is a copy 19 of the Blanco-Mesaverde Pool rules. 20 Q. And this is the section in the special pool rules 21 that authorizes four wells on a spacing unit and requires 22 where they must be located; is that correct? 23 Α. That's correct. 24 Let's go to Exhibit Number 2. Would you identify Q. 25 that, please?

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Exhibit Number 2 is a nine-section plat that 1 Α. identifies in orange the spacing unit that contains the 2 Holmberg wells that are located in the same 40. It's a 3 little fuzzy there from the print, but we're looking in the 4 northeast quadrant of Section 28, right in the center of 5 the exhibit. 6 And then the yellow, the spacing units identified 7 by yellow are those spacing units operated by BP America 8 Production Company, and we operate all the spacing units 9 surrounding this well with the exception of the west half 10 of Section 21, just to the northwest of our wells. And 11 that spacing unit is operated by Burlington. 12 When we look at this exhibit, the yellow blocks 13 Q. and the orange blocks, those actually indicate the areas 14 within which wells could be drilled at standard locations; 15 is that correct? 16 That's correct, that's correct. 17 Α. And all of the yellow blocks are BP-operated 18 Q. 19 properties? 20 Α. That's correct. 21 The ones off to the northwest are operated by Q. 22 Burlington? 23 Α. Correct.

24 Has Burlington contacted us concerning this Q. 25 Application?

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1	A. They have.
2	Q. And what have they indicated?
3	A. They've indicated that they have no objections.
4	Q. Let's go to what has been marked as BP Exhibit
5	Number 3.
6	A. Exhibit Number 3 is just a little close-up of the
7	section in question, Section 28, and I apologize for the
8	blurriness on this on our the spacing unit in
9	question. There's something happening with the colors when
10	they put this color over to make it orange.
11	Q. Could you review just the history of the
12	development of the spacing unit for Mr. Jones?
13	A. I can. In the north there's I guess the first
14	well drilled here would have been the Holmberg Gas Com
15	Number 1, located in the far northern, western corner of
16	our spacing unit. That well is currently abandoned.
17	The first infill well that was drilled is down in
18	the south. It's the Holmberg South Gas Com 1A, and you can
19	see that down in the far southern part of the southeast of
20	the section.
21	When the Holmberg Gas Com Number 1 was abandoned,
22	we drilled a directional well and I think this was
23	drilled by Amoco in 1995, in order to try to intercept a
24	larger section of the Mesaverde and maybe try to encounter
25	some fractures. And so it was directionally drilled, and

1	you can see the track there. And even though it started in
2	what is that? Unit B, I guess, it didn't encounter
3	the Mesaverde until we got to Unit H.
4	And you can see the top of the Cliffhouse. It's
5	a little blurry, but it's marked with a dot and some
6	letters next to it at about I'm guessing here, a little
7	below 4000 feet; I don't have the exact number and
8	continued on, hit the Menefee and then the Point Lookout,
9	and the entire Mesaverde formation interval lies in Section
10	H or Unit H, I'm sorry.
11	In 2000, when we were drilling our first 80-acre
12	density infill well, we drilled the gas com the Holmberg
13	Gas Com Unit Number 1 B. And unfortunately when we drilled
14	that well, we looked at just the surface location of the
15	1R, being up in Unit B, and when we drilled this one we
16	drilled it in Unit H. And we did not recognize that we had
17	both of these wells in the same quarter-quarter until just
18	recently.
19	Q. When you discovered you had two wells in the
20	southeast at the northeast of Section of 28, what did you
21	do?
22	A. We shut in the Holmberg Gas Com Number 1B.
23	Q. And you've left it shut in
24	A. It's still shut in.
25	Q to this time?
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1	And today you're seeking authorization to produce
2	both wells in the same quarter-quarter section; is that
3	right?
4	A. That's correct.
5	Q. Would the approval of this Application affect the
6	correlative rights of any other interest owner in the
7	Blanco-Mesaverde Pool?
8	A. No, it would not.
9	Q. And why is that?
10	A. Well, we're not encroaching on any other spacing
11	units that are out there, and we're also not putting more
12	wells than are required by the Blanco-Mesaverde Pool Rules.
13	Unfortunately, we've just got two wells in the same
14	quarter-quarter.
15	Q. In fact, you could have drilled another Mesaverde
16	well in the southwest of the northeast, even closer to the
17	horizontal wellbore than you are now. Then you would have
18	been standard; is that right?
19	A. That's correct, we could certainly have drilled
20	this well a little bit to the north and west of this and
21	actually been even closer maybe to the Cliffhouse part, but
22	we would have been standard because we would have been in
23	two separate quarter-quarters.
24	Q. But what, in fact, you've got is, you're not
25	increasing the total well density, and you're not

1	encroaching on an offset operator; is that right?
2	A. That's correct.
3	Q. Would you identify what has been marked BP
4	Exhibit Number 4?
5	A. Yes, Exhibit Number 4 is the APD for the Holmberg
6	Gas Com Number 1B, the latest well or most recent well that
7	was drilled, and it shows the surface location of that
8	well.
9	And I really would like to draw your attention to
10	the well plat, the well-location plat on the second page of
11	that exhibit. And you can see where the 1B is located 2200
12	feet from the north and 1220 feet from the east. There's
13	also a couple of pencil marks that were placed there by the
14	actual actually, by the NMOCD Aztec District when they
15	were comparing, you know, where are the locations of the
16	other wells in this spacing unit and, you know, the Aztec
17	District made the same mistake we made in expecting these
18	other wells to be in different quarter quarters.
19	So it was just a mistake on our part, and I think
20	the OCD made the same mistake we made.
21	Q. It shows three wells on the east half of Section
22	28. Are there three Mesaverde wells
23	A. Yes.
24	Q in that section that are capable of producing?
25	A. There are.

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1 Q. Let's go to BP Exhibit Number 5.	
2 A. Okay, Number 5 shows the Holmberg Gas C	om 1R
3 production history, and I kind of would draw your	attention
4 to the red curve that represents the gas rate in 1	MCFD. The
5 well originally was up around 500, 600 MCFD and h	as
6 declined now to about 125.	
7 We drilled the I guess we could look	at the
8 second exhibit here, because I kind of want to ma	ke a
9 comparison.	
10 Q. Okay, Exhibit Number 6?	
11 A. Exhibit Number 6 shows Holmberg Gas Com	Number
12 1B, which is the most recent well drilled in 2000	, and it
13 has a rate of about maximum rate of about 400	MCFD, and
14 then it's down to 150 or a little below, MCFD.	
15 But at the point in time that we drille	d that, we
16 looked at these wells and they both seemed to be	doing very
17 well. We don't seem to see any degradation of pr	oduction
18 trend on the 1R from the 1B, it looked pretty goo	d, pretty
19 consistent.	
20 So my conclusion here would be that bot	h of these
21 wells are in fact recovering reserves that would	not be
22 recovered by the other well. There's no interfer	ence to
23 date, and both wells are needed to efficiently re	cover the
24 resource in this pool, in the spacing unit.	
25 Q. Is it therefore your testimony that app	roval of

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1	the Application will prevent waste
2	A. Yes, it will.
3	Q. If the Application is denied and you're not able
4	to produce the 1B well, you'd have to drill another well in
5	the northeast of Section 28, would you not?
6	A. Yes, we would.
7	Q. And what is the cost of a Mesaverde well in that
8	area?
9	A. You know, I don't have the exact cost but I know
10	it's on the order of \$600,000, \$700,000. So that would be
11	a significant expense to replace a well that's currently
12	producing and currently economic.
13	Q. Mr. Hawkins, does BP plan to drill additional
14	Mesaverde wells on this spacing unit?
15	A. We don't have any plans right now, but I know we
16	are we certainly have one location remaining in the
17	south half of the spacing unit, and I'm not sure if or when
18	that well will be drilled, but it could be.
19	Q. But it still would be within the well density
20	authorized by the special pool rules for this pool?
21	A. That's correct.
22	Q. Is BP Exhibit Number 7 an affidavit confirming
23	that notice of this Application has been provided in
24	accordance with Division Rules?
25	A. Yes.

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And to whom was notice provided? 1 0. Well, it was provided to BP America Production 2 Α. Company working interest owners in all of the spacing units 3 that surround us, and Burlington Resources as operator of 4 the one spacing unit that we do not operate. 5 Is Exhibit Number 8 a listing of the other 6 0. working interest owners in the various wells operated by BP 7 that offset the subject spacing unit? 8 Α. Yes, it is. 9 Would you summarize for Mr. Jones the reasons 10 0. that you're requesting an exception to these special pool 11 rules for the Holmberg 1R and the Holmberg 1B wells? 12 Well, primarily to prevent waste. We recognize 13 Α. these two wells are a little close together, but looking at 14 the production we believe that both wells are needed in 15 order to recover the resource. And they continue to be 16 17 economic, and it doesn't seem to make sense to have to shut one in and replace it. 18 19 Mr. Hawkins, what is BP doing to monitor its 0. 20 operations and to hopefully assure that these kinds of problems don't occur? 21 22 Well, we're making a search right now to see if Α. 23 there are any other wells of this type that may have slipped through the cracks somehow. We have -- you know, 24 25 we're still continuing that, so I'm hopeful that we don't

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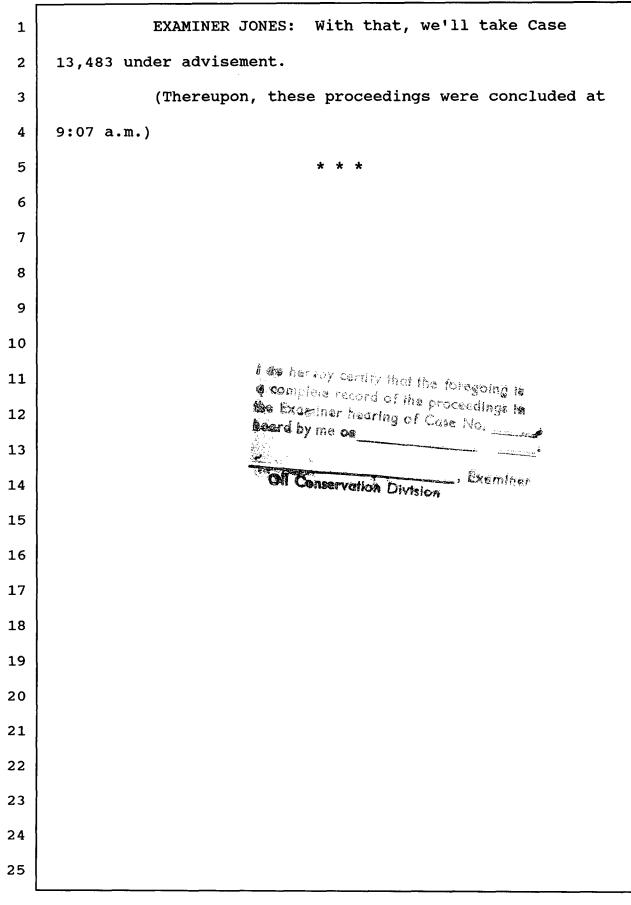
1	have any, but I would not be surprised if we had one or
2	two. But if we do, we will definitely come in to the
3	Division and get them rectified.
4	Q. Are you attempting to tighten up your permitting
5	procedures to also assure that these things don't happen
6	again?
7	A. Yes, we are. We've made a number of changes, and
8	we kind of brought this to the attention of our geologists
9	and engineers that, you know, we need to look not only at
10	the surface location but also the directional information
11	that's available on any of those wells that may have been
12	drilled directionally.
13	And you can see the type of map that we have now
14	that indicates this as the kind of maps that we're looking
15	at for all over the Basin.
16	Q. Were Exhibits 1 through 8 prepared by you or
17	compiled at your direction?
18	A. Yes, they were.
19	MR. CARR: Mr. Jones, at this time we move the
20	admission into evidence of BP America Production Company
21	Exhibits 1 through 8.
22	EXAMINER JONES: Exhibits 1 through 8 will be
23	admitted to evidence.
24	MR. CARR: And that concludes my direct
25	examination of Mr. Hawkins.

1	EXAMINATION
2	BY EXAMINER JONES:
3	Q. Mr. Hawkins, yesterday when I was looking at this
4	I got I was thinking, well, you probably need to notify
5	those people in Section 27, and then I noticed that BP is
6	the operator in that spacing unit anyway, so But I am
7	glad you did notify those working interest owners.
8	But then when I pulled up the production numbers
9	I'm wondering why you didn't just come in today and ask for
10	permission to actually drill another well and keep those
11	two wells going, because those two wells are not making
12	very much.
13	A. Yeah, 125, but they're still economic to operate,
14	you know.
15	Q. Are they pumping units
16	A. No. Well, they could have a pumping unit with
17	some water, I'd have to look at that. I don't know right
18	off the top of my head. But normally, you know, we don't
19	get very much water with these wells, and so they just
20	flow.
21	Q. Yeah. This directional survey, is it in your
22	well files?
23	A. Yes.
24	Q. Okay, so it was there. But when did the merger
25	happen between That was '99, wasn't it?

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1	A. It was 1999, and that's exactly
2	Q. A bunch of new people in there.
3	A. That's exactly what happened in 2000 when we
4	drilled this new well. We had just had the merger, there
5	was some changeover of personnel, and we looked at the
6	surface location and failed to look at the directional
7	information.
8	Q. What would be the payout on a well like a
9	vertical well. Not that slant well, but Why was a slant
10	well drilled in the first place?
11	A. You know, Amoco had a number of wells that were
12	drilled to try to encounter what they deemed to be higher-
13	permeability fractured areas because of some folding in the
14	Mesaverde. And they identified that through seismic, and
15	we drilled, I would guess, a dozen directional wells
16	similar to this. And some were good and some were not, and
17	we've discontinued that program now.
18	So in this case, I don't think this well
19	encountered any additional fracturing, because the straight
20	hole looks just like the other well. So they've got about
21	the same amount of KH.
22	Q. Okay. Did you remember if it was deviated and
23	then went vertical through the Mesaverde?
24	A. Usually they're S-shaped. And I think you can
25	see, it does kind of when we get from the Menefee to the

1	Point Lookout, the dots are getting closer together and
2	A. Yeah.
3	Q probably dropping off there at the bottom.
4	A. Yeah. But what do you think a payout would be on
5	drilling a vertical well out here?
6	A. You know, I don't know. I haven't run economics
7	on these wells, so I couldn't tell you what the payout is.
8	I just I know from the current rates that they're
9	economic certainly economic to operate, and
10	Q. But if you drilled another well in the north
11	you know, in the northwest of this spacing unit, maybe up
12	in Unit B, you may get a similar well to these, from what
13	these curves show here?
14	A. Sure. I mean, certainly there's another well
15	that could be drilled in the south, that we wouldn't exceed
16	the density rules on, and there's always an option to
17	replace one of these.
18	But at 125 MCFD, it's hard to walk away from one
19	of those that you've already got producing and you've spent
20	the money on. At some point we may very well make a
21	decision to shut one of these in and drill a replacement
22	for it. But we prefer to continue with our current
23	operations today.
24	Q. Okay. You could ask for permission to have five
25	wells, though?

Well, we could. 1 Α. Where are you spending your money? **Q**. 2 3 (Laughter) We're still drilling Mesaverde wells in other, 4 Α. you know, spacing units in New Mexico, so ... 5 We're trying to encourage drilling in New Mexico 6 Q. 7 here, so... This is not Indian lands? 8 Not that I'm aware of. 9 Α. Okay. So the 10,987-A(1) applies to this one, I 10 Q. 11 quess. And the well was shut in -- it must have been in 12 January, right? Or February, because I --13 Probably February --14 Α. Well, let's see, our records are behind times, 15 0. and my records show that they're both still producing, but 16 we're back five months. 17 Yeah, this would have been just in the last two 18 Α. 19 to three months when we recognized it and then talked to 20 Mr. Carr and decided to file an Application to -- for an 21 exception to this. EXAMINER JONES: Okay. 22 That's all I have. 23 Thanks very much, Mr. Hawkins. 24 MR. CARR: That concludes our presentation. 25 Thank you, Mr. Examiner.



CERTIFICATE OF REPORTER

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

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

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

WITNESS MY HAND AND SEAL May 19th, 2005.

to we

STEVEN T. BRENNER CCR No. 7

My commission expires: October 16th, 2006