1 2	STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO
3	24 May 1989
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6	EXAMINER HEARING
7	IN THE MATTER OF:
8	Application of Meridian Oil, Inc. for CASE
9	a non-standard proration unit , San 9681 Juan County, New Mexico.
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12	BEFORE: David R. Catanach, Examiner
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15	TRANSCRIPT OF HEARING
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17	APPEARANCES
18	
19	For the Division:
20	
21	For Meridian Oil, Inc.: W. Thomas Kellahin Attorney at Law
22	KELLAHIN, KELLAHIN & AUBREY P. O. Box 2265
23	Santa Fe, New Mexico 87504
24	
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MR. CATANACH: We'll call next Case 9681. Application of Meridian Oil, Inc., for a non-standard proration unit and an unorthodox coal gas well location, San Juan County, New Mexico.

Call for appearances in this

case?

MR. KELLAHIN: I'm Tom Kellahin from the Santa Fe law firm Kellahin, Kellahin & Aubrey, and I have two witnesses to present.

I'd like the record to reflect that Mr. Alexander and Mr. Caldwell have already testified, been sworn and qualified as expert witnesses in the prior case and we would like their continuing qualifications noted in the record of this case.

MR. CATANACH: The record shall so reflect, Mr. Kellahin.

MR. KELLAHIN: We've presented to you, Mr. Examiner, an exhibit booklet that contains two exhibits. In addition, Exhibit Three is my certificate of mailing of notice to the operators potentially affected by our application.

My first witness is Mr. Alexander.

ALAN E. ALEXANDER,

being called as a witness being previously sworn and remaining under oath, testified as follows, to-wit:

DIRECT EXAMINATION

5 BY MR. KELLAHIN:

Q Mr. Alexander, I would like you, sir, to turn to the two displays that are shown behind Exhibit Number One and let's take the display that's got the pink shading on it and first of all have you describe for us what you've shown on this display.

A This display is a land ownership map with well locations, and what we have shown is the existing spacing units for the Mesaverde formation in this area.

Q Would you find for us the location of the Howell M 300 Well and the spacing unit that we have requested Division approval for as an -- as a nonstandard Fruitland coal gas spacing unit?

A Yes, sir. The well is shown and represented by an orange dot and you will locate that -- you will see it located in the southwest quarter of Section 31, Township 30 North, Range 8 West. The spacing unit that we are proposing for this well consists of what would be the west half of Section 31, as well as the southwest quarter of Section 30. I say would be because these are irregular government surveys and they do not consist of a full 640

acres.

Q As follow the western boundary of this whole tier of townships, there are numerous nonstandard portions of the west half of each of these sections, are there not?

A Yes, sir.

Q What has been the solution that Meridian and other operators have utilized for resolving the township irregularity for the development of the Mesaverde formation?

A We have proposed and would like to follow the existing Mesaverde spacing units and you can see that running up and down the township line there are several of those existing that do combine portions of sections in order to compromise and a 320-acre unit, more or less, that would be plus or minus the 25 percent required by the rules.

Q For the Mesaverde, as opposed to the Fruitland Coal Gas, the existing solution for Mesaverde production is consistent then with the proposed solution you have for a spacing unit for the Fruitland Coal.

A Yes, sir, that's correct.

Q From a landman's point of view, do you see any advantage to a continuation of the solution that was utilized for Mesaverde production and have that

solution used for the coal gas production?

A Yes, sir. Since we already have an established pattern of rights and ownerships, which would be the production received from the wells through the working interest owners, the royalty owners, and the other burden owners, it would be much better to follow the existing patterns so that the owners would recognize what their ownership is and it would not cause confusion if we were to construct spacing units of a different size and shape.

We also have title opinions and we have Division orders outstanding that could also be used by the various parties involved and would again decrease the amount of confusion if we stay with the existing Mesaverde spacing.

Q Let's turn to that display behind Exhibit Number One that has an outline in blue, then, do you have that display?

A Yes, sir.

Q What have you done there?

A We have shown the spacing units for the Basin Fruitland Coal that we have proposed in the immediate area. This map may not show all of the spacing units proposed. It may not be up to date because those are currently being filed by different partners, and this could change. It will change as time goes on.

1	Q Does the utilization of the existing
2	Mesaverde nonstandard proration unit for the coal gas
3	production continue to accommodate all the nonstandard
4	proration units that will be available in this township so
5	that we don't strand some acreage that would not otherwise
6	be dedicated to coal gas production?
7	A Yes, sir, that's correct.
8	Q We're not leaving any windows, then, in
9	any of the sections immediately near us that cannot then
10	subsequently be dedicated to a coal gas well.
11	A No, sir, we are not and will not if we
12	follow the Mesaverde pattern.
13	MR. KELLAHIN: That concludes
14	my examination of Mr. Alexander.
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16	CROSS EXAMINATION
17	BY MR. CATANACH:
18	Q Mr. Alexander, you were those
19	Mesaverde proration units approved by the Division?
20	A Yes, sir, they were.
21	Q Do you happen to know what order that
22	was?
23	A No, sir, we have available that order
24	number if you would like it, but I do not list it here.
25	Q I'll probably be able to find it.

1 MR. KELLAHIN: We'll be happy 2 to call it in to you, Mr. Examiner. We can find it. 3 MR. CATANACH: All right. 4 That's all I have of this witness. He may be excused. 5 MR. KELLAHIN: I'd like to call 6 Mr. Caldwell. 7 8 JOHN W. CALDWELL, 9 being called as a witness and being duly sworn upon his 10 oath, testified as follows, to-wit: 11 12 DIRECT EXAMINATION 13 BY MR. KELLAHIN: 14 Q Caldwell, I'd like to direct your Mr. 15 attention to Exhibit Number Two in the exhibit book, if 16 you'll take a moment and identify that display for us. 17 Exhibit Two in this hearing is an appro-18 ximately 4 section by a 5 section picture of the Fruitland 19 net coal thickness isopach, comprising approximately 20 20 sections in Township 29 North and 30 North, Ranges 8 and 21 9 West, centered on the Howell M 300 location in Section 31 22 of Township 30 North, Range 8 West. 23 Q On top of the coal thickness map have 24 you also located additional information?

Yes, sir, we have.

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9 1 And how is that shown? Q 2 The green dot indicated on Exhibit Two 3 indicates the location of the Howell M No. 300 location we're here to talk about today. 5 What does the solid red dot show? 6 The solid red dots indicate Meridian operated and drilled Fruitland Coal completions. 8 Q And then the open red circle on the dis-9 play shows what? 10 The open red circles on the display in-11 dicate other proposed wells either by Meridian that have 12 not been drilled yet, or our best, most updated information 13 on outside operator activity in this area. 14 Am I correct in understanding that as a 15 result of the size and shape of the nonstandard unit that 16 there is not in fact a standard location anywhere in the 17 spacing unit that falls within all the Fruitland coal gas 18 well location rules? 19 Yes, sir, that's correct. 20 0 In terms of finding a location, then, 21 for the nonstandard unit, any location would be unorthodox. 22 Yes, sir. Α 23 In your opinion is this the optimum lo-24 cation within the nonstandard unit in which to penetrate

and test the Fruitland coal gas formation?

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1 Α Yes, sir, a lot of variability is asso-2 ciated with picking locations in the Fruitland coal and thickness is only one of them, but this location optimizes on net coal thick within that particular drilling and 5 spacing unit. 6 Do you see any other location within the Q 7 nonstandard unit putting in all the multiple parameters 8 that you do for the various criteria in deciding location 9 that is better than the proposed location? 10 No, sir. This is the best location we 11 feel to drill this 320-acre well. 12 In an effort to attempt to preserve some 13 consistency in the pattern and spacing of wells between and 14 among themselves for coal gas production, how does this 15 fit? 16 Α feel visually it fits very well. 17 looking at the solid red dots, the open red circles, and 18 the green dot, one gets a pretty good picture of optimal 19 radial drainage pattern amongst all the wells. 20 Q There is still an open coal gas location 21 in the east half of Section 31? 22 Α Yes, sir, that's correct. 23 Is that acreage that you control? Q 24 Α No, sir, it's not. 25 You have left that acreage in a position Q

1 where a standard well location could be drilled and still preserve the spacing patterns necessary for 320 acre drainage? Yes, sir, that's correct. 5 MR. KELLAHIN: That concludes 6 my examination of Mr. Caldwell, Mr. Catanach. We would 7 move the introduction of his Exhibit Number Two. 8 MR. CATANACH: Exhibit Number 9 Two will be admitted into evidence. 10 11 CROSS EXAMINATION 12 BY MR. CATANACH: 13 0 Mr. Caldwell, who is the operator of the 14 east half of --15 I believe it's Amoco. Tenneco's inter-Α 16 est was purchased by Amoco and they've checkerboarded our 17 interest here. 18 Was Amoco given notice of this hearing? 19 MR. KELLAHIN: Yes, sir, Exhi-20 bit A shows the return receipt was sent on May 1st, 1989. 21 The proposed unorthodox location is --Q 22 is, as I understand it, there -- there -- you can't be --23 can't have a standard well location, in that particular 24 spacing unit?

I believe our distances from the lines

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Α

12 1 (not clearly understood) spacing unit, would preclude that. 2 Do you know how far across the proration 3 unit spans, what -- what the footage might be? How thick that --5 Yeah, how wide is the proration unit in 6 terms of (inaudible)? 7 I've been handed an exhibit here that Α looks like a C-102, is that right, that shows some pertinent information that might be of help to you. It indi-10 cates that 1276 feet across the base of Section 31, 1606 11 across the base of Section 30, not the top of the drilling 12 and spacing unit, but the top of the sections -- sorry, the 13 bottom of Section (unclear). 14 What was it across the base of 31? 15 Α 1276 indicated on this exhibit. 790 16 times 2 is 1580 feet. 17 Q Mr. Caldwell, is it your opinion that 18 this method of developing these reserves is the most effi-19 cient method of doing so? 20 It's a compromise, there's no doubt 21 about it, but I feel it's the best one that can be made. 22 Meridian doesn't feel it's advantageous to drill a second 23 well, say, in the southwest of Section 30. I don't think

Q Did you -- did Meridian produce the

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that helps anybody.

Mesaverde reserves under this proration unit?

A I'm not prepared to answer that. I haven't even researched that, to be honest with you. This is a fairly prolific Mesaverde area. From my experience the wells produce 5 to 10 BCF per well pretty regularly in this area. I would assume that based on fracture trends they would produce them all.

MR. CATANACH: That's all I have of the witness. He may be excused.

Anything further in this case?

MR. KELLAHIN: No, sir.

MR. CATANACH: Case 9681 will

be taken under advisement.

(Hearing concluded.)

(Hearing Concluded.)

CERTIFICATE

I, SALLY W. BOYD, C. S. R. DO HEREBY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division (Commission) was reported by me; that the said transcript is a full, true and correct record of the hearing, prepared by me to the best of my ability.

Society W. Boyd COR

a complete record of the proceedings in the Examiner hearing of Case No. 968/heard by me on 19 89

Hand Catanh, Examiner

Oil Conservation Division