ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

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IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

CASE NO. 11,384

1

APPLICATION OF SANTA FE ENERGY RESOURCES, INC.

REPORTER'S TRANSCRIPT OF PROCEEDINGS

ORIGINAL

BEFORE: DAVID R. CATANACH, Hearing Examiner

September 21, 1995

Santa Fe, New Mexico

This matter came on for hearing before the New Mexico Oil Conservation Division, DAVID R. CATANACH, Hearing Examiner, on Thursday, September 21st, 1995, at the New Mexico Energy, Minerals and Natural Resources Department, Porter Hall, 2040 South Pacheco, 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

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EXHIBITS

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A P P E A R A N C E S

FOR THE APPLICANT:

HINKLE, COX, EATON, COFFIELD & HENSLEY 218 Montezuma P.O. Box 2068 Santa Fe, New Mexico 87504-2068 By: JAMES G. BRUCE

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1 WHEREUPON, the following proceedings were had at 2 10:25 a.m.: 3 EXAMINER CATANACH: At this time i'll call Case 4 11,384, Application of Santa Fe Energy Resources, Inc., for 5 an unorthodox oil well location, Lea County, New Mexico. 6 Are there appearances in this case? 7 MR. BRUCE: Mr. Examiner, Jim Bruce representing 8 the Applicant, and I have two witnesses. 9 EXAMINER CATANACH: Any additional appearances? 10 MR. BRUCE: One of my witnesses was already 11 sworn, Ms. Walker, but we have a different geologist. 12 EXAMINER CATANACH: Okay, let me get this witness 13 to stand and be sworn in. 14 (Thereupon, the witness was sworn.) 15 MR. BRUCE: As I said, Mr. Examiner, Ms. Walker 16 was previously sworn in, was qualified as an expert 17 petroleum landman. 18 EXAMINER CATANACH: The record shall so reflect 19 that, Mr. Bruce. 20 DANITA R. WALKER, 21 the witness herein, after having been first duly sworn upon 22 DIRECT EXAMINATION		
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1 Energy seek? Santa Fe Energy seeks approval of an unorthodox 2 Α. oil well location for its proposed Mesaverde 6 Federal Well 3 Number 7. 4 What is Exhibit 1? 5 ο. Exhibit 1 is a land plat of the area, marking the 6 Α. proposed location with a red square. 7 And what does the yellow indicate on this plat? 8 Q. Leasehold acreage owned by Santa Fe Energy. 9 Α. What is the exact footage location of the 10 Q. proposed location? 11 660 feet from the north line and 2540 feet from 12 Α. the east line of Section 6, Township 24 South, Range 32 13 East. The well will be drilled to the Bone Spring 14 formation. 15 Q. Is this location based on geology? 16 Yes, our witness will discuss the geological 17 Α. factors for the well location. 18 Who are the offset operators to this proposed 19 0. location? 20 Referring to Exhibit 1, Santa Fe Energy operates 21 Α. all of Section 6 in Township 24 South, Range 32 East, and 22 is the only affected operator. 23 To the north, Texaco operates all of Section 31, 24 Township 23 South, Range 32 East. We gave notice of this 25

1 hearing to Texaco, although we do not believe Texaco is 2 affected by this location. 3 ο. And what is Exhibit 2? 4 Α. Exhibit 2 is my affidavit of notice which 5 contains my letter to Texaco and the return receipt. And were Exhibits 1 and 2 prepared by you? 6 Q. 7 Yes, they were. Α. And in your opinion, is the granting of this 8 Q. Application in the interests of conservation and the 9 prevention of waste? 10 Yes, it is. 11 Α. MR. BRUCE: Mr. Examiner, I would move the 12 13 admission of Exhibits 1 and 2. EXAMINER CATANACH: Exhibits 1 and 2 will be 14 admitted as evidence. 15 EXAMINATION 16 17 BY EXAMINER CATANACH: 18 Q. Ms. Walker, the acreage in Section 6, is that a single lease or multiple leases or --19 It's a single lease. 20 Α. 21 Q. Federal, state? Federal. Α. 22 23 Q. Single federal lease. So the ownership within the entire Section 6 is common? 24 25 Α. Yes, sir.

1	EXAMINER CATANACH: Okay, I have nothing further.
2	MR. BRUCE: Call Mr. Anderson to the stand.
3	CURTIS ANDERSON,
4	the witness herein, after having been first duly sworn upon
5	his oath, was examined and testified as follows:
6	DIRECT EXAMINATION
7	BY MR. BRUCE:
8	Q. Would you please state your name and city of
9	residence?
10	A. My name is Curtis Anderson, and I live in
11	Midland, Texas.
12	Q. Who do you work for and in what capacity?
13	A. I'm a geologist for Santa Fe Energy.
14	Q. Have you previously testified before the
15	Division?
16	A. Yes, I have.
17	Q. And were your credentials as an expert petroleum
18	geologist accepted as a matter of record?
19	A. Yes, they were.
20	Q. And are you familiar with the geological matters
21	pertaining to this Application?
22	A. Yes.
23	MR. BRUCE: Mr. Examiner, I would tender Mr.
24	Anderson as an expert petroleum geologist.
25	EXAMINER CATANACH: Mr. Anderson is so qualified.

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1	Q. (By Mr. Bruce) Mr. Anderson, would you please
2	refer to your Exhibit 3, I believe, and discuss the zone of
3	interest for the proposed well?
4	A. Yes, Exhibit 3 is a small two-well cross-section
5	that exhibits the objective formation at the proposed
6	location. In this case it's highlighted in yellow, and
7	it's called the Avalon sand. It is within the Bone Spring
8	formation.
9	It also denotes in red the cutoff that was used
10	to map the isopach map of Exhibit Number 4.
11	Q. Now, let's move on to your Exhibit 4 and discuss
12	the reasons for the proposed location. Would you identify
13	this map for the Examiner?
14	A. Exhibit Number 4 is actually in two parts, one on
15	the left-hand side and one on the right-hand side.
16	Directing your attention to the left-hand side,
17	we have a map there that's scaled 1 to 1000. Again, Santa
18	Fe acreage is in yellow. Our proposed unorthodox location
19	is a red square. The Avalon sand producers are highlighted
20	in green, and the 40-acre proration units are outlined in
21	red.
22	And in looking at the left-hand side of the
23	exhibit, you can see the green wells as they are oriented
24	north and south. You can also see the contours. These are
25	the contours of 12-percent or better porosity within the

1	Avalon sand. It's a 10-foot contour interval. It defines
2	a north-south trending turbidite deposit, with the better
3	wells concentrated towards the center of the deposition.
4	You can see near the center of that map the
5	cross-section A-A', as it is labeled on the two wells, one
6	located which would be the left well on the cross-
7	section in the northeast of the northwest of 6. The
8	well on the right of the cross-section is located in the
9	southeast of the southwest of Section 31. And those are
10	the two wells that are closest to our proposed location.
11	Now, as you move to the right side of the
12	exhibit, I've expanded the scale from 1 to 1000 over to a
13	1 to 5000, to enhance the particular area affected by the
14	unorthodox location.
15	Again, here you'll see the cross-section A-A',
16	the two closest wells to the proposed location. You'll see
17	the footages highlighted between what is the proposed
18	location, the red square, and the producing wells, and also
19	the footages between existing wells in the field. Now, the
20	purpose there is to show that as far as drainage purposes,
21	this unorthodox location is pretty much the same as the
22	rest of the wells in the field.
23	Also shown here is an attempt to show some areas
24	of drainage. And what it does, these circles that you see
25	on there are a diameter of a 40-acre proration unit. With

that producing well or that location in the center, you 1 draw a circle to see if there's any 40-acre interference 2 between wells. 3 4 And we note here that the red circle, of course, does not interfere with the wells to the north or the 5 6 Texaco acreage. It barely touches the well to the west. Also indicated on there is a blue circle. The 7 blue circle is around a blue triangle, which is a legal 8 location in that 40-acre proration unit. That particular 9 legal location would affect acreage to the north. 10 So the proposed location, unorthodox, that we're 11 suggesting here is, I think, in the best interests of 12 conservation, because we're moving towards the center of 13 deposition of this particular unit to effect a better 14 drainage, plus not interfering with any of the offset 15 wells. 16 What is the approximate thickness you desire in 17 Ο. 18 the Bone Spring? What we try to attain here -- and this being a Α. 19 fairly narrow channel -- we try to attain, we try to get as 20 close to the 30-foot contour as we can get, towards the 21 center. 22 Okay. And so the good producers are all pretty 23 Ο. much to the west of your proposed location? 24 25 Α. That's correct.

 Q. And so by moving to the east, you'd substantially increase the risk in drilling this well? A. That's correct. Q. And so as a result, you desire to remain in the far western portion of this particular proration unit? A. That's correct. Q. In your opinion, if this Application is granted, should a penalty be assessed against Santa Fe? A. No, sir. Q. Okay, and what is the reason for that? A. Well, that would severely hamper the economics of the drilling of this particular well. Q. And as you stated by your footage distances you marked on this exhibit and the radius of drainage, you are not affecting any offset operators, such as Texaco to the north? A. That is correct. Q. In your opinion, is the granting of this Application in the interests of conservation and the prevention of waste? A. Yes. Q. And were Exhibits 3 and 4 prepared by you? A. Yes, they were. MR. BRUCE: Mr. Examiner, I would move the 		±±
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20 prevention of waste? 21 A. Yes. 22 Q. And were Exhibits 3 and 4 prepared by you? 23 A. Yes, they were. 24 MR. BRUCE: Mr. Examiner, I would move the	18	Q. In your opinion, is the granting of this
 A. Yes. Q. And were Exhibits 3 and 4 prepared by you? A. Yes, they were. MR. BRUCE: Mr. Examiner, I would move the 	19	Application in the interests of conservation and the
 Q. And were Exhibits 3 and 4 prepared by you? A. Yes, they were. MR. BRUCE: Mr. Examiner, I would move the 	20	prevention of waste?
 A. Yes, they were. MR. BRUCE: Mr. Examiner, I would move the 	21	A. Yes.
24 MR. BRUCE: Mr. Examiner, I would move the	22	Q. And were Exhibits 3 and 4 prepared by you?
	23	A. Yes, they were.
25 admission of Exhibits 3 and 4.	24	MR. BRUCE: Mr. Examiner, I would move the
	25	admission of Exhibits 3 and 4.

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1	EXAMINER CATANACH: Exhibits 3 and 4 will be
2	admitted as evidence.
3	EXAMINATION
4	BY EXAMINER CATANACH:
5	Q. Mr. Anderson, you're moving approximately 230
6	feet west of a standard location. How much thickness are
7	you gaining in the reservoir?
8	A. We should be gaining approximately five to ten
9	feet.
10	Q. Now, by moving towards the center of the
11	deposition, does that also increase the or did you
12	encounter better quality reservoir as you move east?
13	A. That is correct.
14	Q. West, sorry.
15	A. The wells located towards the edge of the
16	depositional system do incorporate more siltstone or finer
17	particles within the rock. That makes it less permeable.
18	Down towards the center of the depositional
19	system you get the coarser-grained or better rock.
20	Q. The well to the south, in the quarter-quarter
21	section to the south, the one that shows 13 feet of pay, is
22	that a commercial well?
23	A. That is a commercial well that is currently
24	producing in the Delaware.
25	Q. Oh, that's a Delaware?

It has not been attempted yet in the Avalon sand. 1 Α. The well to the southwest that shows eight feet 2 ο. of pay, is that a commercial well? 3 Okay, that is -- The Number 8 well actually has 4 Α. 5 24 feet of pay. 6 Q. A lot of numbers on this thing. 7 Α. I know, it's confusing. That has 24 feet of pay? 8 Ο. We just finished that well approximately six 9 Α. weeks ago, and yes, it is a good well. 10 So how many feet of pay will you encounter at 11 Ο. 12 your proposed location? I anticipate between 20 and 35 feet. 13 Α. EXAMINER CATANACH: I believe that's all I have 14 of the witness, Mr. Bruce. 15 MR. BRUCE: I have nothing further in this 16 17 matter. EXAMINER CATANACH: All right. There being 18 19 nothing further in this matter, Case 11,384 will be taken under advisement. 20 (Thereupon, these proceedings were concluded at 21 I do hereby certify that the foregoing is 22 10:38 a.m.) a complete moord of the proceedings the Examiner Learing of Crys No. 190 23 * * heard by see on 1941 24 Examiner 25 Oil Conservation Division

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 September 25th, 1995.

Mina____

STEVEN T. BRENNER CCR No. 7

My commission expires: October 14, 1998

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