1 2	STATE OF NEW ENERGY, MINERALS, AND NATURA OIL CONSERVATION STATE LAND OFF SANTA FE, NEW	AL RESOURCES DEPARTMENT N DIVISION ICE BLDG.	
3	7 October 1987		
4	EXAMINER HEARING		
5			
6			
7			
8	IN THE MATTER OF:		
9	Application of Santa Fe Energy Oper- CASE ating Partners, L. P., for four non- 9234		
10	standard gas proration units, Eddy County, New Mexico.		
11	County, New Mexico.		
12	BEFORE: Michael E. Stogner, Examiner		
13			
14	TRANSCRIPT OF HEARING		
15			
16	APPEARANCES		
17			
18		f Taylor orney at Law	
19	Lega	al Counsel to the Division te Land Office Bldg.	
20	San	ta Fe, New Mexico 87501	
21	1 24	es. G. Bruce orney at Law	
22	HIN Pos	KLE LAW FIRM t Office Box 2068	
23	San	ta Fe, New Mexico 87504-2068	
24	ifornia: Atte	liam F. Carr orney at Law	
25	Pos	PBELL & BLACK P. A. t Office Box 2208 ta Fe, New Mexico 87501-2208	

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CURTIS ANDERSON

JOSEPH R. PARADISO

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SFE Exhibit Eight, Well Cost Estimate

NATIONWIDE 800-227-0120

YOLL FREE IN CALIFORNIA 800 227 2434

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MR. STOGNER: Call next Case

9234.

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24 25 MR. TAYLOR: Application of

Santa Fe Energy Operating Partners, L. P., for four nonstandard gas proration units, Eddy County, New Mexico.

MR. STOGNER: Call for appear-

ances in this case.

MR. BRUCE: May it please the Examiner, I'm Jim Bruce from the Hinkle Law Firm in Santa Fe, on behalf of Santa Fe Eergy Operating Partners, and I have three witnesses to be sworn.

MR. CARR: May it please the Examiner, I'm William F. Carr, from the law firm of Campbell & Black, P. A., of Santa Fe, appearing on behalf of Union Oil of California.

MR. STOGNER: Will the witnesses please stand at this time to be sworn?

(Witnesses sworn.)

PATRICK J. TOWER,

being called as a witness and being duly sworn upon his oath, testified as follows, to-wit:

10

11

12

13

14

15

16

20

21

22

23

24

25

2

DIRECT EXAMINATION

3 BY MR. BRUCE:

Will you please state your full name and your city of residence?

A It's Patrick J. Tower. I live in Mid-7 land, Texas.

Q And what is your occupation and who is your employer?

A Lamdman with Santa Fe Energy Company.

Q And have you previously testified before the OCD and had your credentials as a landman accepted as a matter of record?

A Yes, I have.

Q Were you in charge of the land matters involved in Case Number 9234?

A Yes, I was.

MR. BRUCE: Mr. Examiner, are

19 | the witness' credentials acceptable?

MR. STOGNER: They are.

Q Briefly, Mr. Tower, what does Santa Fe seek in this application?

A We seek, or Santa Fe seeks four nonstandard units in the Wolfcamp formation comprised of the west half of Section 2 and the west half of Section 11 of

TON FORM 25C16P3 TOLL FREE IN CALIFORNIA BOD-227-2434 NATIONWIDE BOD-227 0120

Under

statewide Rule 104-C this

pool

BARON FORM 25C16P3 'OLL FREE IN CALIFORNIA 800 227 2434 NATIONWIDE 800 21

Sec-

```
would be on 160-acre spacing.
 1
                       Currently it should be noted that there
2
   -- the two wells in the east half of Section 2 and the
3
   wells in the north half of Section 1 are currently under the
   -- or currently have assigned 160 acres to each well.
5
                       Who are the offset operators to the pro-
6
7
   posed units?
            Α
                        To the east we have -- or in Section
8
                                                              2.
   excuse me, in the east half of Section 2, TXO Production
9
   Company, Champlin Petroleum Company.
10
                       To the north we have Champlin again, Wes-
11
   tern; to the northwest, Cities Service.
12
                       To the west, Union Oil Company of Cali-
13
   fornia being the operator of their working interest unit.
14
                       To
                           the southwest we have Santa Fe again
15
   and Exxon.
16
                       To the east in Section 11 we have Western
17
   Oil Producers.
18
                       And to the south?
19
            0
20
                       And to the south, excuse me, we have
21
   again TXO and Union Oil Company of California, and Santa Fe.
22
            Q
                       Four proposed nonstandard units, how many
   royalty interest owners are there?
23
24
            Α
                        There are five, being two in the
                                                            west
```

half of Section 2, and then three in the west half of

SARON FORM SACRED TO: FOR SACRED MORNIA A

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NATIONWIDE

TOU. FREE IN CALIFORNIA BOD-227 2434

25C-6P3

Q Were all offset operators and royalty interest owners in the four proposed units notified of this hearing by certified mail, and I refer you to Exhibit Number Two?

Yes, they were. Exhibit Number Two is mailing to the involved parties and the certificate of copies of the return receipts from all involved parties, well as the original letter of notification in which waiver of the -- of their -- any objection was sought. Waiver was obtained from all parties with the exception of a few. though they did not voice any objections, they did not return their waiver letters, those parties being Exxon, Union Oil Company of California, who I understand is represented today, the royalty owner in the north half the northwest quarter of section, and one of the royalty owners under Union's tract in the east half of the southwest of Section 13.

All other parties did sign the waiver letter.

Q What are the names of the two royalty interest owners who did not sign?

A In the north half of the northwest section is Frankie Viola Lehman. In the east half southwest Section 11 is currently under a revocable trust into I think

```
it's Josephine Tracy Eddy and George D.
 1
                                             Tracy, George D.
            Junior,
                      Trustees of the Josephine Tracy Eddy
2
   Tracy,
3
   revocable trust, which is dated 12-16-77.
                       In your opinion is the granting of
5
   application in the interests of conservation and
                                                             the
   prevention of waste?
6
7
            Α
                      Yes, it is.
                      And were Exhibits One and Two prepared by
8
            0
   you or under your supervision?
9
                      Yes, they were.
10
            Α
                                MR.
                                                    Examiner,
11
                                     BRUCE:
                                              Mr.
   move the admission of Exhibits One and Two.
12
                                MR.
                                     STOGNER: Exhibits One and
13
   Two will be admitted into evidence at this time.
14
15
                                MR.
                                     BRUCE: I have no further
   questions of the witness at this time.
16
17
                                MR.
                                     STOGNER: I don't have any
18
   questions at this time, either, but I might. I might before
19
   the case is over.
20
                                 Continue, Mr. Bruce.
21
22
                         CURTIS ANDERSON,
23
   being called as a witness and being duly sworn upon his
24
   oath, testified as follows, to-wit:
25
```

BARON FORM 25CIGP3

TOLL FREE IN CALIFORNIA BOO-227-2434

DIRECT EXAMINATION

3 BY MR. BRUCE:

4 Q Will you please state your name and city

5 of residence?

6 A My name is Curtis Anderson. I live in

7 | Midland, Texas.

8 And who is your employer and what are you

9 employed as?

10 A I am a geologist for Santa Fe Energy Com-

11 pany.

12 Q Have you previously testified before the

13 OCD as a geologist?

A Yes, I have.

15 Q And are you familiar with the geological

16 | matters involved in this case?

17 A Yes.

MR. BRUCE: Mr. Examiner, is

19 | the witness acceptable?

MR. STOGNER: Mr. Anderson is

21 | so qualified.

Q Mr. Anderson, will you please refer to

23 | Exhibit Number Three and discuss its contents?

24 A Exhibit Number Three is a structure map

25 on top of the what I'm calling Lower Wolfcamp A pay zone

3 TOLL FREE IN CALIFORNIA 800-227 2434 NATIONWIL

BARON FORM 25C16P3 TOLL FREE IN CALIFORNIA 800-227-2434 NATIONWIDE 800-227-0120

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NATIONWIDE 800-227-0120

FREE IN CALIFORNIA BOO-227-2434

25C16P3

cumulative production is noted by each well and that cumulative is through 1-1 of '87.

The Isopach of porosity greater than or equal to 3 percent. The interpretation for the formation is this is a wedge of clastic, carbonate clastic material that was deposited along the Wolfcamp Shelf edge.

Q Thank you. Would you now please move on to Exhibit Five and describe its contents?

Exhibit Number Five is a stratigraphic cross section A-A' with A to the south beginning at the Western Oil Producers No. 1 Bass, located in the northwest quarter northeast quarter of Section 11, then to the TXO No. 1 Delta Phi, located in the southeast quarter of Section 2, on to the Santa Fe Operating Partners No. 1 Chase, located in the southwest of Section 2, and finally, to Champlin No. 1 Nix Yates located in the northwest quarter of Section 2.

And the purpose of this cross section is to show the interval productive in what I'm calling the Lower Wolfcamp A pay zone and that it is continuous through these four wells and throughout the field.

Q Does the geology indicate that your three proposed wells will be productive of gas and condensate?

A Yes.

Q And of the three proposed wells which well does Santa Fe propose to drill first?

```
first proposed location is
            A
                       Our
1
   located in the northwest quarter of Section 11.
2
3
            Q
                        In your opinion is the granting of this
   application in the interest of conservation, the prevention
5
   of waste, and the protection of correlative rights?
                       Yes.
6
7
                                 MR.
                                      BRUCE:
                                               Mr.
                                                    Examiner,
                                                              Ι
   move the admission of Exhibits Three through Five.
8
                                 MR.
                                      STOGNER:
                                                 Exhibits
                                                           Three
9
   through Five will be admitted into evidence.
10
                                 MR.
                                       BRUCE:
                                              I have
11
                                                         nothing
   further of the witness at this time.
12
13
14
                         CROSS EXAMINATION
15
   BY MR. STOGNER:
            Q
                       Mr.
                             Anderson, the Well No.
16
                                                       l in the
17
   southwest quarter of Section 2.
                      Yes, sir.
18
            Α
                       The cumulative is what, that's 889.3 MCF?
19
            Q
                       Excuse me, yes. In this, in the case of
20
   this well it is not on pipeline or producing at the present
21
22
   time, so this number is a potential number that was submit-
   ted when the well was completed. So this is a calculated
23
24
   open flow rate.
25
                       Okay. Do you know what kind of pressures
            Q
```

TOLL FREE IN CALIFORNIA 800-227-2434

FORM 25CIGP3

```
were saw on that well?
1
                        I think my memory wouldn't do justice to
2
            Α
   the numbers. I think our next witness would show that.
3
                       He's your engineer, I assume.
            Q
            Α
                       Yes, sir.
6
                                 MR.
                                      STOGNER:
                                                      Bruce,
                                                 Mr.
                                                               is
7
   that correct?
                                      BRUCE:
                                               That's -- that's
                                 MR.
8
   correct.
                                 MR. STOGNER: I have no further
10
   questions of Mr. Anderson at this time.
11
                                 Mr. Carr?
12
13
14
                         CROSS EXAMINATION
15
   BY MR. CARR:
                            Anderson, if you know, does Santa Fe
16
            Q
                      Mr.
17
   have plans to drill all three of these wells?
18
            Α
                       Yes.
19
            0
                       And if -- once the well that you propose
20
   to drill first in the northwest of Section 11 is drilled,
   that would leave 160 acres being the southwest of Section 11
21
22
   not dedicated or not an approved unit, is that correct? Do
23
   you know that? If you don't --
24
            Α
                        In
                            drilling, if it was on 160-acre
25
   spacing the drilling of the northwest quarter of Section 11
```

BARON FORM 25C16P3 TOLL FREE IN CALIFORNIA BOD-227-2434 NATIONW

MR. STOGNER: I have no further

```
would allow for a second well, yes, in the southwest quar-
1
   ter.
2
3
            Q
                      But that would -- 160 acres would be the
   only undedicated acreage in that section, isn't that cor-
   rect?
5
                      That's correct.
            Α
6
7
            0
                       Do you know what order you plan to
   after drilling the first well? Do you plan to go
8
                                                        up
                                                             to
   Section 2 or --
            A
                       Well, what we -- our plans are -- is to
10
   drill the well that we have indicated to be the first one,
11
   using that information to select our location for the second
12
   well.
13
                      Do you have any rough estimate as to the
14
   time frame within which you propose to drill all of these
15
   wells?
16
17
            Α
                      We intend to drill the first well in the
   first quarter of 1988, and then the subsequent wells
18
   sometime thereafter, one -- you know, in order.
19
20
                       Do you know if that would be in 1988 by
   the current plans or do you have (unclear)?
21
22
            Α
                      Not for certain. I would asssume that at
   least one other well would be in 1988.
23
24
                      Okay. That's all. Thank you.
```

BARON FORM 25C16P3 TOLL FREE IN CALIFORNIA BOD-227-2434 NATIONW

You've still got to go by what the statewide rules or

the rules for that pool are, but that shouldn't affect what

BARON FORM 25CIGRS TOLL FREE IN CALIFORNIA 800-227 2434 NATIONWIDE BE

```
If you need an unorthodox location for a couple
 1
   today
          is.
   of these, then you can come in later.
3
5
                        JOSEPH R. PARADISO,
   being called as a witness and being duly sworn upon his
6
7
   oath, testified as follows, to-wit:
8
                         DIRECT EXAMINATION
9
   BY MR. BRUCE:
10
                       Mr. Paradiso, would you please state your
            Q
11
   full name and city of residence?
12
                       I'm Joseph R. Paradiso, Midland, Texas.
13
                        And what is your occupation, Mr.
14
                                                            Para-
15
   diso, and who is your employer?
                       Petroleum engineer with Santa Fe Energy.
16
             Α
17
            Q
                       And have you previously testified before
18
   the OCD as an engineer?
19
             Α
                       Yes, I have.
20
                       And are you familiar with the engineering
   matters related to the application for the four nonstandard
21
22
   units?
23
            Α
                       Yes, I am.
24
                                 MR.
                                      BRUCE:
                                               Mr.
                                                    Examiner, is
25
   the witness acceptable?
                                 MR. STOGNER:
                                               They are.
```

BARON FORM 25CIGP3 TOLL FREE IN CALIFORNIA BOO-227:2434 NATIONWIDE BOO-227-0120

is not on

Chase State Well, as it's been indicated before,

BARON FORM 25C16P3 TOLL FREE IN CALIFORNIA BOD-227-2434 NATIONWIDE BOD-227-0120

```
1
   production and the Delta Phi Well has not been on production
   enough to establish any type of decline that I can -- that I
 2
 3
   can make a determination of reserves, and I've had no P/z
   data for that well, either, so --
 5
                      Have you made a rough reserve calculation
 6
   on those two wells?
 7
            Α
                       Yes.
                              I did go ahead and make a calcula-
   tion on the -- what would be a reasonable ultimate recovery
 8
   based on 160 acres to show that they have similar reserves
   to other wells in the field.
10
                        And is that submitted as Exhibit
11
   Seven?
12
                      Our Exhibit Number Seven, yes.
13
14
                        Referring to Exhibits Six and
                                                          Seven,
15
   earlier the Examiner asked about pressures on these
                                                         wells.
   Would you please identify the pressures on these four wells,
16
17
   bottom hole pressure?
18
            Α
                      Okay.
                              They are -- on the Delta Phi No. 1
   the bottom hole pressure, this is absolute, 4528.4 psia.
19
20
                       The Chase State 2 is 5433 psia.
21
                       And the Nix Yates No. 1 is
22
   that's not -- that's not exactly right. From the P/z curves
23
   that I have from Dwight's, a z is in that number.
                                                         I would
24
   have to take that out, but they're very close, 4700 pounds;
```

same way with the Bass No. 1, 4800 pounds; be very, very

BARON FORM 25CIBPS TOLL FREE IN CALIFORNIA 800-227-2434 NATIONWIDE 800-237-0

MR.

STOGNER:

Exhibits Six,

BARON FORM 25CIGP3 TOLL FREE IN CALIFORNIA 800-227-2434 NATIONWIDE 800-227-0120

```
Seven and Eight will be taken under advisement, if there are
1
2
   no objections.
3
                                 I'm sorry, they will be admit-
   ted into evidence.
5
                                               I have no further
                                 MR.
                                      BRUCE:
6
   questions of the witness.
7
                                 MR. STOGNER:
                                               Mr. Carr?
8
                                 MR. CARR: No questions.
9
10
                         CROSS EXAMINATION
   BY MR. STOGNER:
11
                      Gentlemen, I'm still confused as to why
            Q
12
   you want four 160-acre spacings out there. Is
13
                                                        it your
   intent that two wells cannot adequately drain these two 320-
14
15
   acre proration units?
16
            Α
                       Yes, sir.
17
            0
                      Okay. Why is that?
18
                        Because of the calculations that I have
            Α
19
          here.
                  I'm coming up with 140 acres on one,
                                                         177 on
20
   another.
21
            Q
                        Is this unstimulated flow or did they do
22
   some stimulation?
23
            Α
                        I'm not sure on the wells that we don't
24
   -- that we don't operate, to be honest with you.
25
                      Our well is -- has had a little clean up
```

BARON FORM 25C16P3 TOLL FREE IN CALIFORNIA \$00-227-2434 NATIONWIDE BOD-227-0120

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BARON FORM 25C16P3 TOLL FREE IN CALIFORNIA BOO-227-2434 NATIONWIDE 800-227-0120
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```
acid and we may stimulate it when and if we ever get a pipe
2
   on it.
                      You're referring to your well in the --
3
            Q
            Α
                      Our Chase State, yes.
                       Now there presently are two 160-acre
   proration units in the east side of Section 2, is that cor-
7
   rect?
                      That's correct.
                       Do you know if those were old -- grand-
            Q
10
   fathered in or I mean old nonstandard proration units that
11
   were dedicated years ago or were they just recently ap-
   proved?
12
13
            Α
                      I do not know that.
14
                                     BRUCE: Our land witness
                                MR.
15
   could answer that question, Mr. Examiner.
16
                                MR. STOGNER: Okay.
17
                      I think he's answered it.
            Α
18
                                MR.
                                      TOWER: I believe the
19
   northeast quarter of that Nix Yates Well was the original
20
   well that was, let's see here, created that East Carlsbad
21
   Pool, and I believe it's 1975, let me check here.
22
                                Yeah, it was established, I
   think, 6-1-75 under that Order Number R-5015.
24
                                     TXO Delta Phi, I believe,
                                The
25
   was drilled in '86.
            Α
                      Yes, that is correct.
```

```
MR.
 1
                                     TOWER:
                                             And we are a part-
2
   ner with TXO in that particular well.
                      In the Delta Phi?
            Α
3
                           Examiner, I do have the data here
                      Mr.
   now in
           front of me. I found the wells were stimulated,
   acidized and with anywhere from 10,000 gallons to 5,000 gal-
   lons of acid.
7
            Q
                       Okay. Now where actually is that Bass
 8
   No. 1?
                      It is in the northeast quarter of Section
10
            Α
   11.
11
                      And then the Nix Yates?
            Q
12
                      Northeast quarter of Section 2.
            Α
13
            Q
                      Did you run similar calculations on those
14
   two wells down in Section 14?
15
16
            Α
                       No, sir, I just stuck to the offset
   wells.
17
18
                      And how -- well, isn't there a well off-
19
   setting to the south of Section 11? Isn't that an offset
   well? Would you consider that one?
20
21
            Α
                       Oh, the -- well, they are recently
22
   drilled wells but I did not consider them.
23
                      Okay, are they spaced on 160-acre or 320?
            Q
24
            Α
                      320.
25
                      Okay, and did you do similar calculations
            Q
```

BARON FORM 25C16P3 TOLL FREE IN CALIFORNIA 800-227-2434 NATIONWIDE 800-227-

```
1
   to the two Wolfcamp producing wells in Section 35?
 2
                       No, sir, I didn't.
             Α
 3
             Q
                       Are those spaced on 320 or 160?
                       320, it looks like.
             Α
 5
                       Okay, and just for the record, the West-
6
   ern well, that's -- that's spaced on 320 acres, is it not?
7
             Α
                       Yes, sir.
 8
                       Okay. Do you know how many 160-acre pro-
             Q
   ration units there are in this particular pool?
10
             Α
                       I believe there are two.
11
                       And those are the ones in Section 2?
             Q
12
                                 MR.
                                      BRUCE:
                                                And also the two
13
   wells in the north half of Section 1, Mr. Examiner.
14
             Α
                        Oh, yeah, the two wells in the
                                                            north
15
   half.
16
                       Okay, so there's essentially four.
             Q
17
                       Four, right.
             Α
18
                                 MR.
                                      BRUCE:
                                                Mr. Examiner, not
19
    shown on this map is the Western Oil Producers' well which
20
   was the subject of Case Number 9207 today, which will be in
21
    the south half of Section 1.
22
             Q
                       Okay. I'll take notice of that.
23
                                 MR. BRUCE: And that well is in
24
    the extreme western portion of the south half of Section 1.
25
                                 MR. STOGNER: I have no further
```

ARON FORM 25C16P3 TOLL FREE IN CALIFORNIA 800-227-2434 NATIONWIE

```
24
 1
   questions.
2
                                  Mr. Carr, Do you have --
3
                                  MR. CARR: No questions.
                                  MR.
                                        STOGNER:
                                                    -- any
                                                             other
   questions?
5
6
                                  Mr. Bruce, do you have any?
7
                                  MR. BRUCE: No, Mr. Examiner.
                                                  All right.
8
                                  MR.
                                       STOGNER:
                                                               You
   may be excused.
10
                                  Do you have anything further in
   this case, Mr. Bruce?
11
                                  MR. BRUCE: No, sir.
12
13
                                  MR.
                                       STOGNER: Mr. Carr, do you
14
   have any --
15
                                  MR.
                                         CARR:
                                                   Nothing,
                                                               Mr.
   Examiner, thank you.
17
                                  MR. STOGNER: Does anybody else
18
   have anything further in Case Number 9234?
19
                                  The case will be taken under
20
   advisement.
21
22
                         (Hearing concluded.)
23
24
25
```

FORM ZSCIGP3 TOLL FREE IN CALIFORNIA 800:227:2434 NATIONWIDE 800:227-0120

CERTIFICATE

I, SALLY W. BOYD, C.S.R., DO

HEREBY CERTIFY the foregoing Transcript of Hearing before the Cil 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.

Solly W. Boyd COR

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 2234. heard by me on Rolling 1987.

Oil Conservation Division