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 SEELY OIL COMPANY TO EXPAND THE VERTICAL LIMITS OF THE UNITIZED FORMATION, LEA COUNTY, NEW MEXICO CASE NO. 12,740

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—' ORIGINAL

REPORTER'S TRANSCRIPT OF PROCEEDINGS

EXAMINER HEARING

BEFORE: MICHAEL E. STOGNER, Hearing Examiner

October 18th, 2001

Santa Fe, New Mexico

This matter came on for hearing before the New Mexico Oil Conservation Division, MICHAEL E. STOGNER, Hearing Examiner, on Thursday, October 18th, 2001, 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.

* * *

October 18th, 2001 Examiner Hearing CASE NO. 12,740

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EXHIBITS

APPEARANCES

APPLICANT'S WITNESSES:

| <u>CLARENCE W. STUMHOFFER</u> (Engineer) | |
|--|----|
| Direct Examination by Mr. Carroll | 4 |
| Examination by Examiner Stogner | 12 |
| <u>CHARLES W. SEELY</u> (Engineer) | |

| Direct Examination by Mr. Carroll | 15 |
|-----------------------------------|----|
| Examination by Examiner Stogner | 27 |
| Examination by Mr. Brooks | 40 |

REPORTER'S CERTIFICATE

* * *

STEVEN T. BRENNER, CCR (505) 989-9317 2

EXHIBITS

| Applicant's | | Identified | Admitted |
|-------------|----|------------|----------|
| Exhibit | 1 | 6 | 11 |
| Exhibit | 2 | 8 | 11 |
| Exhibit | 3 | 9 | 11 |
| Exhibit | 4 | 16 | 26 |
| Exhibit | 5 | 18 | 26 |
| Exhibit | 6 | 18 | 26 |
| Exhibit | 7 | 18 | 26 |
| Exhibit | 8 | 20 | 26 |
| Exhibit | 9 | 21 | 26 |
| Exhibit | 10 | 21 | 26 |
| Exhibit | 11 | 10 | 11 |

* * *

APPEARANCES

FOR THE DIVISION:

DAVID K. BROOKS Attorney at Law Energy, Minerals and Natural Resources Department Assistant General Counsel 1220 South St. Francis Drive Santa Fe, New Mexico 87505

FOR THE APPLICANT:

LOSEE, CARSON, HAAS & CARROLL, P.A. 311 West Quay Avenue Post Office Box 1720 Artesia, New Mexico 88211-1720 By: ERNEST L. CARROLL

* * *

| WHEREUPON, the following proceedings were had at |
|---|
| 9:40 a.m.: |
| EXAMINER STOGNER: At this time I'll call Case |
| Number 11,740, which is the Application of Seely Oil |
| Company to expand the vertical limits of the unitized |
| formation, Lea County, New Mexico. This concerns the |
| Central EK Queen Unit. |
| Call for appearances. |
| MR. CARROLL: Mr. Examiner, my name is Ernest |
| Carroll of the Losee, Carson, Haas and Carroll law firm of |
| Artesia, New Mexico, and I'm here appearing on behalf of |
| the Applicant Seely Oil Company, and I have two witnesses. |
| EXAMINER STOGNER: Any other appearances? |
| Will the two witnesses please stand to be sworn |
| at this time? |
| (Thereupon, the witnesses were sworn.) |
| MR. CARROLL: I would call as my first witness |
| Clarence Stumhoffer. May I proceed, Mr. Examiner? |
| EXAMINER STOGNER: Please. |
| CLARENCE W. STUMHOFFER, |
| the witness herein, after having been first duly sworn upon |
| his oath, was examined and testified as follows: |
| DIRECT EXAMINATION |
| BY MR. CARROLL: |
| Q. Mr. Stumhoffer, would you state your full name |
| |

and address for the record? 1 I'm Clarence Stumhoffer, S-t-u-m-h-o-f-f-e-r. 2 Α. I'm from Fort Worth, Texas. 3 How are you employed, Mr. Stumhoffer? Q. 4 I'm a consulting petroleum engineer for Seely Oil 5 Α. Company. 6 Now, Mr. Stumhoffer, have you had an opportunity 7 Q. 8 to testify prior to today's date before the Oil 9 Conservation Division of New Mexico and have your credentials accepted as a petroleum engineer? 10 11 Α. Yes, I have. Now, Mr. Stumhoffer, are you familiar with and 12 0. knowledgeable about the Application of Seely Oil Company to 13 expand the vertical limits of unitized formation for the 14 Central EK Queen Unit? 15 16 Α. Yes, I am. MR. CARROLL: I would tender Mr. Stumhoffer as an 17 expert, a petroleum expert, engineer expert, with respect 18 to this case. 19 EXAMINER STOGNER: Mr. Stumhoffer is so qualified 20 21 as all three experts. (By Mr. Carroll) Mr. Stumhoffer, are you 22 Q. 23 familiar with the Central EK Queen Unit, located in Lea 24 County, New Mexico? 25 Yes, I am. Α.

5

Have you been involved with this unit since it 1 Q. was first approved by the OCD back in 1993? 2 3 Α. Yes, I have. Did you testify at the original hearing, Mr. 4 Q. 5 Stumhoffer? Α. Yes, I did. 6 Mr. Stumhoffer, I would ask you to turn to 7 Q. 8 Exhibit Number 1. Would you identify what that exhibit is for the record? 9 Exhibit Number 1 is a copy of the unit agreement 10 Α. for the development and operation of the Central EK Queen 11 Unit area, located in Lea County, New Mexico, and it's the 12 complete document, approved document, showing the unit area 13 14 and... All right. Now, Mr. Stumhoffer, on page 2 of the 15 Q. unit agreement there are some definitions, are there not? 16 That's correct. 17 Α. There is a definition for "unitized formation"; 18 0. is that correct? 19 That is correct. 20 Α. And this is the "unitized formation" definition 21 Q. that this unit has been operated under since its inception; 22 23 is that correct? 24 That is the original unitized "unitized Α. 25 formation" definition.

6

| 1 | Q. The Seely Oil Company seeks to expand that, does |
|----|---|
| 2 | it not? |
| 3 | A. Yes. |
| 4 | Q. Would you read into the record the new "unitized |
| 5 | formation" definition which Seely Oil seeks to have |
| 6 | adopted? |
| 7 | A. Yes, I will. "Unitized formation" is defined as |
| 8 | that stratigraphic interval occurring between a point from |
| 9 | the top of the Yates sand at approximately 3240 feet, to |
| 10 | 100 feet below the base of the Queen sand, said interval |
| 11 | occurring between 3240 feet and 4770 feet in the General |
| 12 | Operating Company Santa Fe State Well Number 2, located 330 |
| 13 | feet from the north line and 990 feet from the east line of |
| 14 | Section 18, Township 18 South, Range 34 East, NMPM, Lea |
| 15 | County, New Mexico, as recorded on the Welex compensated |
| 16 | density dual spaced neutron log of said well dated January |
| 17 | 20th, 1986. |
| 18 | Q. Mr. Stumhoffer, for clarification, Seely Oil |
| 19 | Company seeks only to offer this "unitized area" definition |
| 20 | and seeks no other modifications of the unit agreement or |
| 21 | the waterflood or anything else; is that correct? |
| 22 | A. That is correct. |
| 23 | Q. I'd ask you to turn to the second exhibit, |
| 24 | Exhibit Number 2. Would you identify that exhibit for the |
| 25 | record? |
| | |

Exhibit Number 2 is a map of the Central EK Queen Α. 1 2 Unit on which we've shown the waterflood development of the property, with the injection well shown with a blue 3 triangle and the existing producing wells, which are in the 4 Queen Reservoir, with green circles. 5 Could you give us a brief history of this unit so 6 Q. 7 as to familiarize the Examiner with what's going on out 8 there? The Central EK Queen Unit was formed during 1993 9 Α. for the waterflood development of the Queen sand under a 10 group of leases covering 988.40 acres of State of New 11 Mexico land, located in Sections 7, 8, 9, 17 and 18 of 12 Township 18 South, Range 34 East, Lea County, New Mexico. 13 This Queen sand waterflood is located in the EK Yates-Seven 14 Rivers-Queen field that produces from the Yates, Seven 15 Rivers and Queen reservoirs. 16 During the development of the Queen sand 17 waterflood, a thin but potentially oil-productive zone in 18 the Yates was encountered, and it is our desire to produce 19 this zone by primary means with the existing Queen sand 20 21 waterflood operation. Now, Mr. Stumhoffer, I believe you mentioned that 22 Q. the sole mineral owner and royalty-receiving party in this 23 entire unit is the State of New Mexico; is that correct? 24 25 Α. That is correct.

1 Is there anything else that you would like to Q. 2 offer to the Examiner with respect to Exhibit Number 2? Well, not at this time. I just -- It's pretty 3 Α. straightforward. It shows the wells that -- This is a 4 5 complete waterflood development map of the Central EK Queen Unit. 6 7 Would you then turn to your Exhibit Number 3? Q. 8 Α. Okay. Would you identify for the record and then give 9 Q. your thoughts on how this particular exhibit relates to the 10 11 Application? Exhibit Number 3 is a progress report for the 12 Α. Central EK Queen Unit performance for the months of May 13 through July of 2001. It shows the oil production. 14 15 In July -- I might want to point out, in July the unit produced 263 barrels of oil per day and 295 barrels of 16 17 water per day. And cumulative waterflood all to date is 18 288,233 barrels. This includes a copy of -- shows all the 19 20 production his- -- tests on the wells within the unit area, water injection data, reinjecting -- We've injected 21 2,064,500 barrels of water, and in July we injected 29,448 22 barrels of water. 23 24 The last page -- There are four pages to this 25 The last page is a performance curve of the exhibit.

9

| 1 | project from the original date when it was formed. And as |
|----|---|
| 2 | you can see, it's done pretty well. |
| 3 | Q. Mr. Stumhoffer, in looking at your exhibits this |
| 4 | appears that the development of this particular unit is |
| 5 | completed. In other words, the wells that are going to be |
| 6 | drilled, or which were proposed when this unit was first |
| 7 | presented to the OCD, they have all been drilled; is that |
| 8 | correct? |
| 9 | A. That's correct. |
| 10 | Q. And however, there is still While this unit |
| 11 | has been in existence, approximately eight years, this |
| 12 | thing still has some productive life or history left; is |
| 13 | that correct? |
| 14 | A. That is correct. And we'd like to produce the |
| 15 | other oil, which Well, this will be discussed at a |
| 16 | later |
| 17 | Q. Mr. Charles Seely is also a petroleum engineer, |
| 18 | will be the other witness on behalf of that |
| 19 | A. That's correct. |
| 20 | Q. All right. I would ask you to pull the last |
| 21 | exhibit, it's Exhibit Number 11, off of your exhibit stack. |
| 22 | It will be right on the bottom, the certificate of mailing |
| 23 | and compliance. |
| 24 | A. Right. |
| 25 | Q. Mr. Examiner, you have the original of my |
| | |

I would note that with respect to the -- I affidavit. 1 think there are some 37 individuals that we gave notice, 2 the green cards have been attached except for one, and it's 3 on page 3, it's a McInnes Resources Company. 4 That is a 5 small company which is run by one of my partners. We handdelivered the notice to him, and there is an affidavit to 6 7 that effect attached to the back of this -- along with the return green cards. 8 9 We have received no notices of objection or, frankly, any inquiries to what -- with respect to our 10 11 Application. And with respect to that, Mr. Stumhoffer, this group of 37 people that we have listed here, these are 12 the people that were the original participants in this unit 13 14 agreement, are they not? That is correct. 15 Α. Okay. And Seely oil has managed this unit from 16 Q. beginning till the present time? 17 18 Α. From the original date. MR. CARROLL: Mr. Examiner, at this time I would 19 20 move admission of Exhibits 1, 2, 3 and 11. 21 EXAMINER STOGNER: Exhibits 1, 2, 3 and 11 will be admitted into evidence. 22 23 Q. (By Mr. Carroll) Mr. Stumhoffer, is there 24 anything that I may have overlooked with respect to the 25 testimony you desire to give in connection with this

| 1 | Applicati | on? |
|----|------------|---|
| 2 | Α. | I believe we've covered it pretty well. |
| 3 | | MR. CARROLL: I would pass the witness, then, Mr. |
| 4 | Examiner. | |
| 5 | | EXAMINER STOGNER: Thank you. |
| 6 | | EXAMINATION |
| 7 | BY EXAMIN | ER STOGNER: |
| 8 | Q. | Mr. Stumhoffer, did you receive your notice? |
| 9 | А. | Yes. |
| 10 | Q. | Okay, because I notice your name is on there. |
| 11 | | In referring to the map that's your exhibit |
| 12 | Number 2? | |
| 13 | А. | Right. |
| 14 | Q. | And you stated that this is fully developed. |
| 15 | А. | Yes. |
| 16 | Q. | When did the last injection well come on line, |
| 17 | roughly? | I mean, you started in 1993 |
| 18 | Α. | 1993, and it has been spread out over the last |
| 19 | eight yea: | rs. It has been just within the last year or two. |
| 20 | It's been | a long development period, because we had to |
| 21 | drill a lo | ot of wells. |
| 22 | Q. | You had to drill a lot of injection wells or |
| 23 | Α. | A lot injection wells and producing wells. |
| 24 | Q. | Okay. Now, your |
| 25 | Α. | We drilled of the wells we drilled we |

drilled a well in the northwest quarter of the southwest 1 quarter of Section 8, an injection well. We drilled an 2 injection well in the southeast of the southwest of Section 3 7, and we drilled a well in an unorthodox location in the 4 northeast of the northeast of Section 18, Well Number 8-3, 5 we drilled the well in the northeast northeast of Section 6 17, which is Well Number 11-2, we drilled -- that's a total 7 8 of four injection wells we drilled. 9 And producers we drilled were three wells that are located with the green, located in Section 7, more 10 specifically the Well Number 16 located in the northwest of 11 12 the southeast of 7, the Well Number 17 located in the southwest of the southwest of 7, and the Well Number 14 13 located in the southeast of the southeast of Section 7. 14 So we've drilled a total of seven wells over the 15 last eight-year period. I can't remember the exact date 16 when we did the last one. 17 18 Q. Does Seely plan to drill any more producing wells? 19 No. 20 Α. At least not at this time? 21 Q. Not at this time. 22 Α. Do you know what the rates and pressures 23 Q. Okay. of injection -- the injection pressures and injection rates 24 25 are out there?

| 1 | A. We're injecting right at 1000 barrels a day, and |
|----|---|
| 2 | the average pressure is running about 2100 pounds. It |
| 3 | varies a little bit per well, on the individual well. And |
| 4 | we have done this through the step-rate test procedure to |
| 5 | get the pressures up to that point. |
| 6 | Q. Is that pretty indicative that 2100, 2200 |
| 7 | pounds pressure, pretty indicative of the pressure of the |
| 8 | entire reservoir across that area? |
| 9 | A. Yes, yes. It requires that much pressure to get |
| 10 | the water in the formation. |
| 11 | Q. Now, are there other injection projects around |
| 12 | the Central EK Queen Unit? |
| 13 | A. Yes, there were some old projects to the |
| 14 | southwest in the EK Queen Field. There was the Mobil EK |
| 15 | Queen Unit, and it was formed back in 1966 and it's still |
| 16 | active, although it's very reduced operation, but Seely Oil |
| 17 | Company also operates it. |
| 18 | And then there was the Murphy Baxter North I |
| 19 | think it was the North the EK Queen Unit, north of the |
| 20 | Central EK Queen Unit. That's been plugged and abandoned. |
| 21 | I think The unit has been dissolved, but there are a few |
| 22 | of the producing wells still in existence. |
| 23 | Q. Now, the injection has always been and still is |
| 24 | the Queen formation within that original unitized formation |
| 25 | interval? |
| - | |

Yes, it is, Mr. Examiner. 1 Α. 2 Q. And at this time the injection interval is not to 3 change or -- I don't have the copies of the previous orders 4 in front of me, so I don't know what it actually said. 5 Α. The new zone that we're proposing to expand the unitized formation to include will not be waterflooded. 6 We 7 just want to be allowed to produce this zone while we're operating this waterflood, because the zone is very thin, 8 and it's not going to be economically feasible. 9 I'm getting into some testimony that Mr. Seely is going to 10 give. 11 EXAMINER STOGNER: Okay, then I'll wait and hear 12 from him then. 13 Okay, I don't believe I have any other questions 14 of Mr. Stumhoffer. You may be excused. 15 16 MR. CARROLL: Thank you, yes. Mr. Seely? May I proceed, Mr. Examiner? 17 EXAMINER STOGNER: Please. 18 19 CHARLES W. SEELY, 20 the witness herein, after having been first duly sworn upon 21 his oath, was examined and testified as follows: DIRECT EXAMINATION 22 BY MR. CARROLL: 23 24 Q. Mr. Seely, would you state your full name, 25 residence and occupation?

| | 10 |
|----|--|
| 1 | A. I'm Charlie Seely in Fort Worth, Texas. I'm a |
| 2 | petroleum engineer and the owner of Seely Oil Company. |
| 3 | Q. All right. The Applicant in today's hearing; is |
| 4 | that correct? |
| 5 | A. Correct. |
| 6 | Q. Mr. Seely, you have had occasion over numerous |
| 7 | times to testify and have your credentials accepted as a |
| 8 | petroleum engineer, have you not? |
| 9 | A. In the State of New Mexico since 1963. |
| 10 | Q. And Mr. Seely, you are familiar with this |
| 11 | Application being made on behalf of Seely Oil? |
| 12 | A. That's correct. |
| 13 | MR. CARROLL: I tender Mr. Seely as an expert in |
| 14 | the field of petroleum geology [sic], Mr. Examiner. |
| 15 | EXAMINER STOGNER: Mr. Seely is so qualified. |
| 16 | Q. (By Mr. Carroll) All right, Mr. Seely, would you |
| 17 | give kind of a brief overlook, if you will, a statement of |
| 18 | why this Application has been made to the OCD? And if you |
| 19 | need to, I would ask that if you need to refer to your |
| 20 | Exhibit Number 4, please do. And when you do refer to it, |
| 21 | please identify it for the record as to exactly what |
| 22 | Exhibit 4 is. |
| 23 | A. Okay, we will refer to Exhibit 4, and it is a |
| 24 | Yates formation data map, production data map. |
| 25 | There have been three wells in the general area |
| | |

16

| 1 | of the Central EK Queen Unit that have produced from the |
|----|---|
| 2 | Yates formation, and they've averaged about 24,000 barrels |
| 3 | per well. You can see that two immediately offset the |
| 4 | Central EK Queen Unit to the west, and there's one that's |
| 5 | in the unit. |
| 6 | Current production from the wells, we've |
| 7 | converted the one in the unit to a water injection well in |
| 8 | the Queen sand. The other two combined produce about five |
| 9 | or six barrels a day. |
| 10 | Q. When you look at your exhibit, I think the two |
| 11 | wells you're talking about, the top one has got a 3 by it |
| 12 | and a red |
| 13 | A. They're shown in red, yes |
| 14 | Q. Red |
| 15 | A circled in red, that's correct. |
| 16 | Q. And then the number by it is 3 for the top one |
| 17 | and 5 for the bottom one? |
| 18 | A. That's correct. |
| 19 | Q. There's a rectangular box, and it has as for |
| 20 | the 3 well, the 25,697, and then the bottom half of the box |
| 21 | has a 2. Is not the upper number the total production of |
| 22 | oil from that well and the bottom number the daily |
| 23 | production? |
| 24 | A. That's correct, as shown in the legend on the |
| 25 | map. |
| L | |

| | 10 |
|----|---|
| 1 | Q. The 3-1 well, which is actually in the unit, you |
| 2 | had a short productive period, did you not, and then this |
| 3 | was a this well had been intended to be an injection |
| 4 | well, was it not? |
| 5 | A. That's correct. |
| 6 | Q. And so you have now put it on as an injection |
| 7 | well? |
| 8 | A. That's right. |
| 9 | Q. All right. Would you then continue on with your |
| 10 | testimony as to how this stringer was discovered and why |
| 11 | you believe it is necessary to amend the unitized formation |
| 12 | interval with respect to this unit? |
| 13 | A. Before I get into that, in Exhibits 5, 6 and 7 |
| 14 | are detailed curves of the oil and gas and water production |
| 15 | from those three wells. |
| 16 | Q. All right. If I might just clarify for the |
| 17 | record, we have the State DW Number 3. That is the well |
| 18 | that has on Exhibit 4 the Number 3 by it; is that correct? |
| 19 | A. That's correct, that's correct. |
| 20 | Q. And then the State DW Number 5, which is Exhibit |
| 21 | 6 |
| 22 | A. That's correct. |
| 23 | Q is the 5 well |
| 24 | A. Uh-huh. |
| 25 | Q. And then the State OG 2414 Number 1, that would |

| 1 | be the well that we were just talking about, the 3-1, which |
|----|---|
| 2 | briefly produced in this Yates formation but has now been |
| 3 | put on injection |
| 4 | A. That's correct. |
| 5 | Q injection status? |
| 6 | A. That's |
| 7 | Q. All right |
| 8 | A correct. |
| 9 | Q and that's Exhibit Number 7. All right, sir. |
| 10 | A. This zone is very thin, two to four feet. We |
| 11 | thought it probably was the Yates sand to begin with, and I |
| 12 | guess most of the other operators did too, because when |
| 13 | they perforated the Yates interval they perforated |
| 14 | everything, including the Yates sand. And naturally they |
| 15 | thought that's where it was coming from. |
| 16 | We have since found with our additional drilling |
| 17 | that it actually is coming from a thin dolomite section |
| 18 | just immediately below the Yates sand. And with this |
| 19 | additional drilling we found that it extends pretty much |
| 20 | throughout most of the unit. We have logs and sample shows |
| 21 | and cores and that type thing to back this up. |
| 22 | We had a show in Well Number 16, which in the |
| 23 | unit, which we thought probably came from the Yates sand. |
| 24 | We sidewall cored the Yates sand and thought we cored in |
| 25 | the wrong place because it was not productive. But that |

| 1 | told us that we might need to look a little bit farther. |
|----|---|
| 2 | So in Well Number 17, which is located in the |
| 3 | and that's the last well we drilled located in the |
| 4 | southwest southwest of Section 7, we ran a conventional |
| 5 | core through the whole Yates section and |
| 6 | Q. Mr. Seely, with respect to the two wells you were |
| 7 | just talking about, the sections the Well Number 16 that |
| 8 | you were referring to has the red notation, said "good show |
| 9 | in samples", and a red arrow pointing to it; is that |
| 10 | correct? |
| 11 | A. Yeah, and then |
| 12 | Q. And the one that you cored is the "4' thick" |
| 13 | A. That's correct. |
| 14 | Q notation, and points to a well marked 17? |
| 15 | A. That's correct. |
| 16 | Q. And you actually have presented as an exhibit the |
| 17 | core sample as Exhibit Number 8; is that correct? |
| 18 | A. That's correct. |
| 19 | Q. Okay, if you'll continue your testimony, then, |
| 20 | about the |
| 21 | A. And on this Exhibit Number 8 you'll see the first |
| 22 | seven samples are it doesn't say there, but that is from |
| 23 | the Yates sand. And samples 9 through 12 are from this |
| 24 | dolomitic section. And you can see that it exhibits good |
| 25 | porosity and permeability, fluorescence, oil saturation and |
| | |

1 so forth to probably be a productive well. 2 To further indicate that early drilling missed 3 this, there was a well drilled in the northwest of the -northeast of the southwest of Section 7, by Sun Ray Mid-4 Continent, called the State G Number 3. It's shown on the 5 map as a dryhole. It's in location K in Section 7. 6 The 7 Yates sand only was perforated and fracture treated, but it 8 didn't make a well. This was a cable-tool hole drilled back in around 1955, and I'm sure it had a show where they 9 wouldn't have set pipe and tried it. 10 Then looking across the unit, there are a couple 11 of cross-sections. 12 The first is Exhibit Number 9, is it not? Q. 13 That's correct, which is cross-section A-A. 14 Α. And you'll see it goes from the State "DW" Number 3, which did 15 produce, across the unit and down to 883 [sic], which is 16 down in Section 18. 17 You can see on there it shows the Yates. 18 The zone is so thin if I had put a top and a bottom on it, we 19 wouldn't have been able to see it, so... But I do have it 20 highlighted in yellow so that you can trace it through all 21 22 of those wells down to 83 [sic]. 23 I did the same thing with this other cross-24 section, B-B --25 Which is Exhibit 10, is it not? Q.

| | 22 |
|----|--|
| 1 | A. Exhibit 10, and it goes from west to east all the |
| 2 | way across the unit. And you see this first well there, |
| 3 | which is the State "DW" Number 5, is a producer. It's made |
| 4 | 29,000 barrels. |
| 5 | Then coming on over to the next well is Number |
| 6 | 17, which is the one that we had the core on, and you can |
| 7 | see it's got a pretty good looking section there. |
| 8 | Then you can also follow that same zone all the |
| 9 | way across the unit. |
| 10 | Q. Mr. Seely, with respect to this Application, why |
| 11 | do you feel it is necessary that you get approval to amend |
| 12 | the vertical limits of this producing or unitized |
| 13 | formation? |
| 14 | A. Well, if you had to The wells that we have out |
| 15 | there we're presently using, there are maybe one or two or |
| 16 | so that will free up as we keep producing and as the |
| 17 | project goes along. But the reserves on this, each one of |
| 18 | these wells, is at least the three that we have there, |
| 19 | they average like 24,000 barrels. I did a volumetric |
| 20 | calculation and I pretty much supported that with a four- |
| 21 | foot thickness, I came up with about 24,000 barrels, using |
| 22 | the porosity off of the core data. |
| 23 | Then with a three-foot section which some of |
| 24 | this is going to be three and maybe even less than that |
| 25 | be about 18,000 barrels. And if it were two foot, it would |
| | |

1 be like 12,000.

The cost to drill a Yates producer would be something over \$300,000. We've estimated with an AFE of \$309,000, operate the well for eight years and that's another \$96,000.

Income from like an average of 24,000 barrels, we've estimated \$355,000. This is -- as you can see, would result in a loss. It's based on \$20 oil, 80-percent net revenue interest, and a 7-1/2-percent state and local tax.

10 The reserves themselves just don't support drilling new wells, but by granting permission to expand 11 the unit to include the Yates, the wells could be 12 13 recompleted, and by granting this vertical expansion there 14 could be a possible increased reserves of, say, the 18 wells that we have, average of 24,000 barrels, something 15 over 400,000 barrels, and the State has the royalty on this 16 17 so this would be an additional 50,000 barrels to the State 18 at a value of about a million dollars.

Q. With respect to this request, I take it, then, from your testimony that if we're not allowed to produce this as we go -- as we're still continuing the unit operations, this stringer would become uneconomic; is that correct? And by what I'm saying is that the cost of doing all this, if it can be included during the operations and become part of the --

| 1 | A. Oh, sure. |
|----|--|
| 2 | Q operations of the overall unit |
| 3 | A. Right. |
| 4 | Q it becomes economic |
| 5 | A. Yeah. |
| 6 | Q whereas otherwise it would not be economic? |
| 7 | A. Yeah, because at this time and for the next |
| 8 | probably eight years or so, I think we'll have probably |
| 9 | economic operation of this unit. |
| 10 | Q. Okay, and that will allow you to keep staff out |
| 11 | there and the production equipment and what have you |
| 12 | A. Sure. |
| 13 | Q to collect this while this overall |
| 14 | reserves are close to a half million barrels of oil, |
| 15 | 400,000, that's still not enough to justify going in and |
| 16 | trying to produce this particular small interval? |
| 17 | A. No, it's not enough to justify drilling 18 wells |
| 18 | to get that type reserve. |
| 19 | Q. Okay. Now, with respect to this Application, do |
| 20 | you feel that it would be in the best interest of the Oil |
| 21 | Conservation Division to approve it with respect to the |
| 22 | issue of protection of correlative rights? |
| 23 | A. Oh, absolutely. The zone is looks like pretty |
| 24 | much the same throughout there, so I cannot see that there |
| 25 | would be a problem with correlative rights at all. And |
| | |

| 1 | with the it would protect the owners of the unit, |
|----|--|
| 2 | correlative rights, if we were allowed to go ahead and do |
| 3 | this. |
| 4 | Q. With respect to the issue of waste, do you feel |
| 5 | that it is in the best interest of the prevention of waste |
| 6 | of the oil that is located in this Yates formation to |
| 7 | approve this Application? |
| 8 | A. I don't think that it will I know I certainly |
| 9 | can't drill, and I don't know of anyone else who can |
| 10 | drill |
| 11 | Q. So |
| 12 | A to lose money. |
| 13 | Q. So in your |
| 14 | A. I think |
| 15 | Q in your opinion |
| 16 | A you'll lose |
| 17 | Q this oil would be lost? |
| 18 | A. I think it would be lost, yes. |
| 19 | Q. With respect to the production out here in the |
| 20 | Yates, Seven Rivers and Queen formation, this has always |
| 21 | been considered by the OCD as one field, has it not? |
| 22 | A. As one field, that's correct. |
| 23 | MR. CARROLL: Okay. Mr. Examiner Well, at |
| 24 | this time I would move the admission of Exhibits 4 through |
| 25 | 10. |
| | |

EXAMINER STOGNER: Exhibits 4 through 10 will be 1 2 admitted into evidence. (By Mr. Carroll) Mr. Seely, is there any further 3 Q. comments that you would like to make with respect to this 4 Application or the exhibits that have just been admitted? 5 Well let me just say, we absolutely do not intend 6 Α. to waterflood this, not at this time. But I don't want to 7 say forever that we wouldn't, but if we do, that's a 8 9 different story. And that would be the subject of a --10 Q. Of a different --11 Α. -- subsequent Application --12 Q. That's correct. 13 Α. -- to the OCD, and you recognize --14 Q. That's correct. 15 Α. -- the necessity for that before you would ever 16 Q. attempt --17 Sure. 18 Α. -- any type of --19 Q. 20 Α. Sure. -- waterflood operations? 21 Q. 22 Anything further, Mr. Seely? 23 Α. No. MR. CARROLL: Mr. Examiner, I would pass the 24 25 witness.

1 EXAMINER STOGNER: Thank you, Mr. Carroll. 2 EXAMINATION BY EXAMINER STOGNER: 3 Mr. Seely, what language will be utilized to 4 Q. replace the unitized formation? 5 MR. CARROLL: Mr. Stumhoffer, that language -- We 6 7 utilized that language in the Application, Mr. Stogner, but 8 I have a -- what Mr. Stumhoffer read into the record right 9 here for you. It's this typewritten -- right there, that's what Mr. Stumhoffer read into the record during his 10 11 testimony. EXAMINER STOGNER: Okay, he read what was to be 12 13 changed? 14 MR. CARROLL: Yes, sir, the new language that we 15 are seeking. 16 EXAMINER STOGNER: Okay. 17 MR. CARROLL: I apologize, I should have 18 presented that as an exhibit but I did not. If the Examiner would like, I can do that as a subsequent exhibit, 19 20 but it is in the Application. EXAMINER STOGNER: Well, I guess I need to ask 21 Mr. Stumhoffer, because I did have some questions 22 23 concerning that, but I'll call him later. Okay, let's see. 24 (By Examiner Stogner) Now, are any of these Q. wells -- and I'm referring to your Exhibit Number -- which 25

| | 20 |
|----|---|
| 1 | map do you have in front of you? |
| 2 | MR. CARROLL: Four. |
| 3 | THE WITNESS: Four, I think it is. |
| 4 | Q. (By Examiner Stogner) Exhibit Number 4? |
| 5 | A. Yes. |
| 6 | Q. Are any of these wells currently producing from |
| 7 | that upper Yates |
| 8 | A. Yes. |
| 9 | Q Yates sand? |
| 10 | A. The two not in the unit but offsetting the unit. |
| 11 | Q. Okay, how about wells within the unit? |
| 12 | A. No, there's no production. |
| 13 | Q. Okay, what are your plans on completion within |
| 14 | the Yates formation within this unit? Will they be the |
| 15 | producing wells, the injecting wells? |
| 16 | A. No. For instance, there's one injection well |
| 17 | that we don't think that we need, that was used in the |
| 18 | Murphy Baxter flood that we re-entered and restored the |
| 19 | injection into it. Instead of having to plug this well |
| 20 | and this is one of the reasons we need this, because with |
| 21 | these orphan-well-type things occurring we either need to |
| 22 | plug it or we need to make it productive. And that's |
| 23 | probably the first well that we would submit for an |
| 24 | application to recomplete. |
| 25 | Q. And which one |

| A. There's also another well that essentially has watered out, which is Well Number 2-2 over in Section 8. It's in the southeast of the southeast of Section 8. That well has essentially watered out, and we would probably work on it within the very near future. Either that or we'd have to plug it. Q. Okay, let's talk about that 2-2 well. A. Okay. Q. How will that be recompleted? Will the Queen formation be A. Completely shut off. Q squeezed or Completely shut off? A. That's correct. Q. And that's the way and that would any other completion to the Yates would also be like that where the Queen was shut off completely; is that what I'm hearing? A. Well, certainly if that's the case in this 2-2, in this injection well, it would certainly be true in the good show in the samples, that well could be recompleted at this time in the Yates, but it's a very tight well in the Queen, but we really don't want to we don't want to squeeze it off because we think that we may be getting some | | |
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| 24 squeeze it off because we think that we may be getting some | 22 | this time in the Yates, but it's a very tight well in the |
| | 23 | Queen, but we really don't want to we don't want to |
| 25 response at a later date. | 24 | squeeze it off because we think that we may be getting some |
| | 25 | response at a later date. |

| 1 | Q. Well, Mr. Seely |
|----|---|
| 2 | A. It's not very close to water injection, and it's |
| 3 | just going to take some time, probably, for it to get |
| 4 | there. |
| 5 | Q. Okay. Well, bear with me here, I |
| 6 | A. Sure. |
| 7 | Q I don't have copies of the old orders, but |
| 8 | you're familiar with the operations out there. So as I |
| 9 | understand it now, the waterflood goes into this unitized |
| 10 | Queen formation |
| 11 | A. That's correct. |
| 12 | Q and interval? Also contained within that |
| 13 | waterflood order, which as you stated is not your plans |
| 14 | today, there is a deal in there or a statement in there in |
| 15 | which you are to contain all injected intervals, all |
| 16 | injected fluids into that formation or that injected |
| 17 | interval. So how can you do that if you come in here and |
| 18 | open some of these producing wells up to the Yates |
| 19 | formation if that's not a part of the waterflood? I'm |
| 20 | confused. |
| 21 | A. Well, obviously the ones that we are going to |
| 22 | work on, at least first, are going to be the ones that have |
| 23 | already watered out, and we'll squeeze it off or we'll set |
| 24 | a bridge plug, whatever is required with the State. |
| 25 | Q. Okay, so it will What you're telling me then, |
| • | |

| 1 | either you plan to, or if required, which is |
|----|--|
| 2 | A. Okay. |
| 3 | Q required under the current procedures |
| 4 | A. Okay. |
| 5 | Q you are to seal off that Queen interval from |
| 6 | any of these Yates formations, so therefore you won't have |
| 7 | any commingling of those fluids into the |
| 8 | A. No. |
| 9 | Q interval which has not been covered by the |
| 10 | waterflood; is that correct? |
| 11 | A. That's correct. |
| 12 | Q. Okay. Now, when I'm looking at the unit |
| 13 | agreement, has this proposed expansion gone to the Land |
| 14 | Office for preliminary approval? What have they said about |
| 15 | it? |
| 16 | MR. CARROLL: Mr. Examiner, it has gone, they're |
| 17 | aware of the Application. In fact, I have at their request |
| 18 | submitted more copies of it, and at least preliminarily |
| 19 | they have no objection. |
| 20 | EXAMINER STOGNER: Do you have written |
| 21 | confirmation? |
| 22 | MR. CARROLL: I have no written confirmation of |
| 23 | that. |
| 24 | EXAMINER STOGNER: But they have Seely has |
| 25 | presented this, either through the mail or in person, to |

the State Land Office? 1 MR. CARROLL: Through the mail, yes, sir. 2 EXAMINER STOGNER: Okay. Now, I have some 3 questions about the unit agreement in this unitized 4 5 formation Do I need to ask Mr. Stumhoffer or Mr. Seely? MR. CARROLL: I would suspect Mr. Seely has -б EXAMINER STOGNER: 7 Okay. MR. CARROLL: -- as good a feel --8 THE WITNESS: I would hope so. 9 MR. CARROLL: -- he's been in it since the 10 11 beginning too. 12 (By Examiner Stogner) Okay, Mr. Seely, in Q. looking at the unit agreement --13 MR. CARROLL: That's Exhibit -- It's there on 14 15 your right. (By Examiner Stogner) Okay, now this Yates 16 Q. formation portion is essentially -- how would you classify 17 it? A wildcat unit or development unit, or how would you 18 classify this unit as far as the Yates formation goes? 19 Well, it certainly wouldn't be a wildcat unit. 20 Α. It would be a development unit. 21 Okay, because there's wording in there, and that 22 Q. 23 sixth paragraph, "...it is the purpose of the parties hereto to enable institution and consummation of 24 25 secondary...enhanced oil recovery operations..." But

| 1 | you're telling me the Yates formation is not part of that |
|----|---|
| 2 | waterflood agreement, so how can we |
| 3 | A. Well, we just don't plan on flooding it at this |
| 4 | time, but we probably do plan to put some water into it |
| 5 | before it's over. |
| 6 | Q. Okay. |
| 7 | A. If the zone doesn't make water, it's very thin, |
| 8 | it should be very susceptible to waterflooding, that should |
| 9 | be an additional oil recovery. |
| 10 | Q. Okay, I |
| 11 | A. But I have to have several wellbores completed in |
| 12 | there before I can really get in with the flood. |
| 13 | Q. Well, I'm sorry, I must have misunderstood Mr. |
| 14 | Stumhoffer's testimony, and he told me it will not be |
| 15 | waterflooded and would not be waterflooded, and now you're |
| 16 | telling me |
| 17 | A. No, I'm telling you |
| 18 | Q it is, so I guess I misunderstood |
| 19 | A. No. |
| 20 | Q and I apologize about that. |
| 21 | A. Well, I apologize for that too, but I'm not going |
| 22 | to say that it's not going to be waterflooded. The first |
| 23 | thing I did when I sat down was that. |
| 24 | Q. Okay, so we're going to expand this unit under |
| 25 | this unit agreement; is that correct? |
| | |

| 1 | A. That's right. |
|----|---|
| 2 | Q. Okay, and it's to be included in the secondary |
| 3 | enhanced recovery type of a unit agreement that's filed |
| 4 | with the State Land Office, and as I understand you have |
| 5 | received preliminary approval for this expansion, verbally? |
| 6 | A. Refer to |
| 7 | MR. CARROLL: I think that's the fair |
| 8 | characterization, yes, Mr. Examiner. I have communicated |
| 9 | all of this stuff to them. They have indicated, take it to |
| 10 | the hearing, see if you get approval, then we'll give you |
| 11 | the final approval. And I you know, maybe that's the |
| 12 | way they do it, maybe that's not the way. This is a first |
| 13 | for me, I have not expanded a unitized area like this |
| 14 | before, and that seems to be my luck of the draw lately, is |
| 15 | to get some everything that's new. |
| 16 | But it is we feel that it would still fit |
| 17 | under a second as Mr. Seely has testified, is that since |
| 18 | there has been no production other than these two wells |
| 19 | outside of the unit, this is a pristine reservoir which |
| 20 | could not be waterflooded at this stage. We have to get |
| 21 | the production. So we're looking at down the road, then it |
| 22 | will come into play. And at such time, as Mr. Stumhoffer |
| 23 | said, we will then make the appropriate application to the |
| 24 | OCD to allow us then to inject water into this Yates trend. |
| 25 | And that is our full intentions. |

But again, Mr. Examiner, this is a fluke. No one knew about it, other than they thought it was the sand, and only through the core testing that Mr. Seely authorized when they drilled these last couple of wells were they able to actually identify the productive interval, which no one had a clue about.

And I suspect that after the word of this hearing gets out, you're going to see some further activity outside of this unit with respect to people that already have wells, that they could allow to go back in and do some recompletion work.

And then this is a typical problem too, Mr. 12 Examiner. We're coming here with a new find. We control 13 considerable amounts of this acreage, but we wanted to 14 bring it so that we can start taking the proper steps in 15 order to save money, because this is not an economic 16 project in and of itself, but we're also having to put 17 everybody on notice that there's a new play out there. 18 And I've probably said more than Mr. Seely wanted me to say 19 about that, but that's an explanation. So he's pointing a 20 finger at me, so I don't know, maybe I should shut up. 21 (By Examiner Stogner) Okay, I've got a question 22 Q. 23 here related back to the business that we're here for. 24 When the original Queen Unit and waterflood was 25 formed, was there a reason why the whole pool limits were

| 1 | not included in the waterflood and just the Queen? |
|----|---|
| 2 | A. We had no reason to even have a foggy idea that |
| 3 | we would ever want to include the Yates in this. |
| 4 | Q. Okay, it's usually better in the initial stage to |
| 5 | unitize the whole pool as opposed to just a small portion |
| 6 | of a formation within a big pool, unless there's some |
| 7 | reason, and that's |
| 8 | A. Well |
| 9 | Q the reason I was asking that question, so what |
| 10 | reason was it that it limited to the Queen? But you said |
| 11 | you don't know or that you have no knowledge |
| 12 | A. Well, we have no reason to think that we would |
| 13 | ever use that. |
| 14 | Q. Okay, one other question here concerning these |
| 15 | limits. Now when I read the original one it said 100 feet |
| 16 | above the top of the Queen. And you want to change that |
| 17 | now to the top of the Yates |
| 18 | A. That's correct. |
| 19 | Q at approximately 3240. Okay, that's |
| 20 | A. In that well, yes. |
| 21 | Q. Now then, and this is the same well that you |
| 22 | propose to use the type log, and that's that General |
| 23 | Operating Company Santa Fe State Well Number 2; is that |
| 24 | correct? |
| 25 | A. That's correct. |

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just thought, you know, there's been so much drilling out 1 2 there that that zone was -- that there was no other productive zone, they thought it was a conclusive proof to 3 that. 4 And then they've now found out that even our best 5 quesses are subject to review. 6 7 Okay, well, maybe the Queen sand here is getting 0. me confused. When I see the word "from the base of the 8 Queen sand", I'm thinking that that Queen sand is the base 9 of the Queen formation; is that true or not true? 10 Well, I think it can be either way. But yes, I 11 Α. agree with you, and that would be the 4700, plus or minus, 12 13 feet. Okay, 4770 is --14 Q. 15 Would be the base of the Queen. Α. -- is the base of the Queen? 16 Q. 17 That's correct. Α. I would suggest that we drop that 100 feet below 18 Q. the base of the Queen sand and go with just that 4770. 19 THE WITNESS: Okay. 20 MR. CARROLL: We have no objection to that, Mr. 21 Examiner. 22 (By Examiner Stogner) So I'd suggest that we go 23 Q. from the top of the Yates, and then you can show that at 24 4240, to the base of the Queen, just say Queen, at 4770. 25

| 1 | And I am assuming with what I am saying that 4770 is within |
|----|---|
| 2 | the Queen |
| 3 | A. Uh-huh. |
| 4 | Q or at the base of the Queen, it does not |
| 5 | extend down into the San Andres formation; is that true? |
| 6 | MR. CARROLL: Mr. Stumhoffer did confirm that. |
| 7 | EXAMINER STOGNER: Okay, all right. With those |
| 8 | changes, Mr. Carroll, is there anything further at this |
| 9 | time with |
| 10 | MR. CARROLL: No, sir. |
| 11 | EXAMINER STOGNER: Mr. Seely? |
| 12 | MR. CARROLL: This would conclude our entire |
| 13 | presentation, unless there's some other questions you'd |
| 14 | like to ask of Mr. Stumhoffer. |
| 15 | EXAMINER STOGNER: No, because we're just talking |
| 16 | about the unitized formation, and you set me straight on |
| 17 | the waterflood portion when that comes later and when that |
| 18 | zones are opened up and then that order could be |
| 19 | expanded too. |
| 20 | MR. CARROLL: Yes, sir. |
| 21 | MR. BROOKS: Could I ask a couple |
| 22 | EXAMINER STOGNER: Oh, I'm sorry, yes. |
| 23 | MR. BROOKS: Normally I wouldn't, but just to |
| 24 | clarify what we're doing here, because I have not looked at |
| 25 | the file. |

| | 40 | |
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| 1 | EXAMINATION | |
| 2 | BY MR. BROOKS: | |
| 3 | Q. Is this a statutory unitization of this unit | |
| 4 | agreement pursuant to a statutory unitization, or is it | |
| 5 | just a voluntary unit agreement? | |
| 6 | A. Just a voluntary unit. | |
| 7 | MR. BROOKS: Okay, that was really all I had. | |
| 8 | Thank you. | |
| 9 | EXAMINER STOGNER: If there's nothing further, | |
| 10 | then we'll take this case under advisement. | |
| 11 | MR. CARROLL: Thank you, your Honor. | |
| 12 | (Thereupon, these proceedings were concluded at | |
| 13 | 10:36 a.m.) | |
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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 October 22nd, 2001.

STEVEN T. BRENNER CCR No. 7

My commission expires: October 14, 2002