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BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
January 19, 1977

EXAMINER HEARING

IN THE MATTER OF:)	
)	
Application of TransOcean Oil, Inc.)	CASES
for a unit agreement, Catron County,)	5837
New Mexico.)	5838
)	5839

BEFORE: Richard L. Stamets

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the New Mexico Oil	Lynn Teschendorf, Esq.
Conservation Commission:	Legal Counsel for the Commission
	State Land Office Building
	Santa Fe, New Mexico
For the Applicant:	William F. Carr, Esq.
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1 MR. STAMETS: We will call next Case 5837.

2 MS. TESCHENDORF: Case 5837, application of
3 TransOcean Oil, Incorporated for a unit agreement, Catron
4 County, New Mexico.

5 MR. CARR: Mr. Examiner, I'm William F. Carr
6 appearing for the applicant in this case.

7 We would first request that since this and the
8 two succeeding cases have interrelated subject matter that
9 the cases be consolidated for the purpose of testimony.

10 MR. STAMETS: I would like to have the next two
11 cases called and we will consolidate them for purposes of
12 testimony.

13 MS. TESCHENDORF: Case 5838, application of
14 TransOcean Oil, Incorporated for a unit agreement, Catron
15 County, New Mexico.

16 Case 5839, application of TransOcean Oil,
17 Incorporated for a unit agreement, Catron County, New Mexico.

18 MR. STAMETS: I would like to have all of the
19 witnesses who will present testimony in these cases stand and
20 be sworn at this time.

21 (THEREUPON, the witnesses were duly sworn.

22 MR. CARR: I would call Mr. Don Jumper.

23 DON JUMPER

24 called as a witness, having been first duly sworn, was
25 examined and testified as follows:

DIRECT EXAMINATION

1
2 BY MR. CARR:

3 Q Will you state your full name, residence, by whom
4 employed and what position you hold?

5 A I'm Don Jumper, I'm Land Operations Manager, Western
6 Division for TransOcean Oil, Incorporated out of Houston,
7 Texas.

8 Q Mr. Jumper, have you previously testified before the
9 Oil Commission and had your credentials accepted and made a
10 matter of record?

11 A No, I haven't.

12 Q Would you please summarize for the Examiner your
13 educational background and your prior work experience?

14 A I have a degree from the University of Texas with
15 a major in petroleum land management. I have been active
16 in land work for about fifteen years.

17 MR. CARR: Mr. Examiner, are Mr. Jumper's credentials
18 as a landman acceptable?

19 MR. STAMETS: Yes, they are.

20 Q (Mr. Carr continuing.) Mr. Jumper, are you familiar
21 with the applications filed in these cases?

22 A Yes, I am.

23 Q What is TransOcean trying to accomplish by these
24 applications?

25 A We are trying to form some exploration units for

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1 the drilling of some exploratory wells.

2 Q Have you prepared or has there been prepared under
3 your direction and supervision certain exhibits for introduction
4 in these cases?

5 A Yes, there have.

6 Q I would ask you to refer to what has been marked as
7 Exhibit Number One, explain what it is and what it shows?

8 A This is our land map of what we call our Omega Unit.
9 It shows the different classes of land, the outline of the
10 proposed unit and the lease ownership within the unit.

11 Q What percent of the acreage is Federal, State and fee
12 land?

13 A Okay, this unit is seventy-six percent Federal,
14 sixteen percent State and what we call fee land would be about
15 seven point six two percent.

16 Q Has the Omega Unit been designated by the USGS as a
17 logical unit area?

18 A Yes, it has.

19 Q And is a copy of that letter what has been marked
20 for introduction in this case as Exhibit Number Two?

21 A Yes, that is correct.

22 Q Now, would you refer to what has been marked as
23 Exhibit Number Three, identify it and explain to the Examiner
24 what it is ?

25 A Okay, Exhibit Three is basically the form prescribed

1 by the USGS for the formation of the development unit and it
2 has been altered to include State provisions for the Commission.

3 Q And this is the Omega Unit Agreement?

4 A Yes, it is.

5 Q Okay, has the form of this agreement been approved
6 by the State Land Office?

7 A Yes, it has.

8 Q And is a copy of that letter what has been marked
9 for introduction as Exhibit Four?

10 A Yes, it is.

11 Q Mr. Jumper, would you advise the Commission as to
12 the present status of the commitment of acreage to the Omega
13 Unit Agreement?

14 A Yes, sir, we have one hundred percent joinder of
15 the working interest owners within the unit. We have sent
16 letters to the royalty owners but we haven't had response,
17 offering them the opportunity to commit their royalty interest.
18 However, I would like to point out that the royalty interests,
19 other than State or Federal is only seven point six two percent,
20 I believe.

21 Q Do you believe that sufficient acreage is committed
22 to the unit to afford effective control of the unit operations?

23 A Yes, I do.

24 Q Now, will you refer to what has been marked as
25 Exhibit Number Five, explain what it is and what it shows?

1 A. Okay, Exhibit Five is our map showing the unit
2 outline of our French Unit. It also shows the leasehold
3 position within the unit and the various classes of land within
4 the unit, State, Federal and fee.

5 Q What percentage of the land within this unit is
6 Federal, State and fee land?

7 A. The French Unit, seventy-nine percent is Federal,
8 thirteen percent State and there is seven percent fee.

9 Q Has the French Unit been designated a logical unit
10 area by the USGS?

11 A. Yes, it has.

12 Q Is a copy of their letter what has been marked for
13 introduction in this case as Exhibit Number Six?

14 A. Yes, it is.

15 Q Now, will you refer to what has been marked as
16 Exhibit Number Seven and tell the Examiner what it is?

17 A. This is a unit form similar to the Omega Unit form
18 which is prescribed by the USGS, that has been altered to
19 include provisions for State land.

20 Q And this is the unit agreement for the French Unit?

21 A. This is the unit agreement form, that is correct.

22 Q Has this agreement been approved as to form by the
23 State Land Office?

24 A. Yes, it has.

25 Q And is Exhibit Eight a copy of their letter so

1 approving this unit?

2 A. Yes, sir.

3 Q What is the present status of commitment of acreage
4 to that French Unit Agreement?

5 A. One hundred percent of the working interest owners
6 have joined the unit. Letters have been forwarded to the fee
7 royalty owners to join the unit. We do not have response from
8 them yet. They were forwarded the first part of last week so
9 we do not anticipate any problems with them. There are some
10 overriding royalties which we don't have one hundred percent
11 joinder back but I would say about ninety percent of the over-
12 riding royalty interest owners have executed ratification and
13 joinders and returned them to us.

14 Q You have the same situation with the French Unit
15 that you did with the Omega that most of the land is State and
16 Federal?

17 A. This is correct.

18 Q Do you believe you have sufficient acreage committed
19 to the agreement to afford effective control of the operations?

20 A. Yes, we do.

21 Q Would you now refer to what has been marked as
22 Exhibit Nine and explain to the Examiner what it is and what
23 it shows?

24 A. Exhibit Nine is our unit map for the Remuda Unit
25 showing the outline of the unit, the various classes of land and

1 the leasehold ownership within the unit.

2 Q And could you tell the Examiner again what percentage
3 of the land in this unit is State, Federal and fee land?

4 A Okay, there are two classes of Federal land within
5 this unit. There is National Forest land which comprises almost
6 nineteen percent of the unit, Public Domain is almost twenty-
7 six percent of the unit; State land six percent of the unit and
8 there is forty-eight, almost forty-nine percent of the unit
9 that is what we call patented land and this land, by and
10 large, I believe about forty-three percent of it is owned
11 by the Santa Fe Pacific Railroads which we have entered into
12 a development contract with the railroad for the development
13 of this land.

14 Q Has the Remuda Unit been designated by the USGS as
15 a logical unit area?

16 A Yes, it has.

17 Q And is Exhibit Ten a copy of their letter so
18 designating this unit?

19 A Yes, it is.

20 Q Would you refer to what has been marked as Exhibit
21 Number Eleven and tell the Examiner what it is?

22 A This is our unit agreement for the Remuda Unit.

23 Q Has the form of this agreement been approved by
24 the State Land Office?

25 A Yes, it has.

1 Q And is Exhibit Twelve a copy of their letter so
2 approving this unit?

3 A Yes, it is.

4 Q What is the present status of commitment of acreage
5 to the Remuda Unit?

6 A One hundred percent of the fee owners or working
7 interest owners have joined in it. A ratification joinder has
8 been sent to the railroad for their joinder with the royalty
9 interest. They have not responded as yet, however, I talked
10 to the railroad yesterday and there is no problem. We
11 anticipate that they will join the unit with no hesitation.

12 Q Do you have sufficient acreage committed to the
13 Remuda Unit to afford sufficient control of unit operations?

14 A Yes, we feel so.

15 Q Now, Mr. Jumper, will you refer to what has been
16 marked as Exhibit Thirteen and explain to the Examiner what
17 this is?

18 A Okay, there is an instrument style assignment
19 agreement, this agreement has to do with our development
20 contract with the Santa Fe Pacific Railroad. We conveyed an
21 undivided thirty-seven point five percent of our interest under
22 the development contract to a company called the Estate of
23 William G. Hellis out of New Orleans. This instrument is an
24 instrument of conveyance that we used to convey this interest.

25 Q Will you refer to what has been marked as Exhibit

1 Fourteen and explain to the Examiner what this is?

2 A. Okay, Exhibit Fourteen is styled inclusion agreement.
3 Actually this is an addendum to the development contract we
4 have with the Santa Fe Pacific Railroad. The actual agreement
5 is styled inclusion agreement, is where we added some additional
6 lands that had been omitted from our base agreement with the
7 railroad. The inclusion agreement added, say, another thirty-
8 five thousand acres to our base agreement.

9 Q. Mr. Jumper, in each of the three units proposed today
10 is TransOcean designated the unit operator?

11 A. Yes, we are.

12 Q. Will Mr. Belnap testify as to geological considera-
13 tions?

14 A. Yes, he will.

15 Q. In your opinion will the proposed units promote the
16 prevention of waste and protection of correlative rights?

17 A. Yes, they will.

18 Q. Were Exhibits One through Fourteen prepared by you
19 or under your direction and supervision?

20 A. Yes, they were.

21 MR. CARR: At this time, Mr. Examiner, I would offer
22 Exhibits One through Fourteen and I have no further questions
23 of Mr. Jumper.

24 MR. STAMETS: Exhibits One through Fourteen will be
25 admitted.

1 (THEREUPON, Applicant's Exhibits One
2 through Fourteen were admitted into evidence.)
3

4 CROSS EXAMINATION

5 BY MR. STAMETS:

6 Q Mr. Jumper, what's the percentage of the fee land
7 in the Remuda Unit that is owned by the railroad?

8 A I believe about forty-three percent.

9 Q Forty-three percent of the fee?

10 A Of the fee, right. The fee constituted forty-six.

11 Q It says forty-eight nine.

12 A Okay, the railroad is forty-six percent, the balance
13 of the fee would be, say, roughly two percent, so forty-six
14 percent would be railroad. If it is forty-eight percent then
15 the additional two percent would be what I would call patented
16 land, non-railroad patented land.

17 Q In a few words, what is the purpose of the
18 assignment agreement, Exhibit Thirteen?

19 A Exhibit Thirteen. Okay, Exhibit Thirteen, we own
20 or our agreement with the railroad was only between the rail-
21 road and TransOcean Oil, we conveyed an undivided interest to
22 the Estate of William G. Hellis of our position in this area
23 and so the agreement here is just an instrument of conveyance
24 from TransOcean to the Hellis Estate of the interest under the
25 railroad development contract.

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1 Q And this interest results from the unit agreement?

2 A No, not this. The interest that we conveyed and
3 have under the railroad covers additional lands than what is
4 included in the unit agreement. In other words, our entire
5 acreage position of railroad lands I would say is in excess
6 of three hundred and fifty thousand acres and so this instrument
7 conveys an undivided thirty-seven and a half percent under the
8 entire three hundred and fifty plus thousand acres.

9 MR. STAMETS: Are there any other questions of the
10 witness? He may be excused.

11 (THEREUPON, the witness was excused.)

12 MR. CARR: I would call Dennis W. Belnap.

13
14 DENNIS W. BELNAP

15 called as a witness, having been first duly sworn, was
16 examined and testified as follows:

17
18 DIRECT EXAMINATION

19 BY MR. CARR:

20 Q Would you state your full name?

21 A Dennis Wayne Belnap.

22 Q Mr. Belnap, where do you reside, by whom are you
23 employed and in what capacity?

24 A I'm employed by TransOcean Oil, I'm the District
25 Geologist for the Western Division and I reside in Houston,

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1 Texas.

2 Q Have you previously testified before the Commission
3 and had your credentials accepted and made a matter of record?

4 A No, sir.

5 Q Would you briefly summarize for the Examiner your
6 educational background and your work experience?

7 A I graduated from Brigham Young University in 1970
8 with a Master's degree, I have been actively full-time
9 employed by major oil companies, working in Northern New Mexico
10 since that time.

11 Q What was your degree in?

12 A Geology.

13 Q Are you familiar with the particular area involved
14 in these cases?

15 A Yes.

16 MR. CARR: Mr. Examiner, are Mr. Belnap's credentials
17 as a geologist acceptable?

18 MR. STAMETS: The experience was as a geologist?

19 THE WITNESS: Yes, an exploration geologist.

20 MR. STAMETS: Yes, the witness is considered
21 qualified.

22 Q (Mr. Carr continuing.) Are you familiar with the
23 subject matter of these cases?

24 A Yes, sir.

25 Q Have you prepared or has there been prepared under

1 your supervision and direction certain exhibits for introduction
2 in this case?

3 A. Yes.

4 Q Will you refer to what has been marked as Exhibits
5 Fifteen and Sixteen and explain to the Examiner what these are
6 and what they show? You may have to move up to the Examiner
7 we only have one copy of these.

8 A Exhibit Fifteen is a general geological summary of the
9 French, Omega and Remuda Units, Catron County, New Mexico, which
10 delineates the location of the area, a brief summary of the
11 stratigraphy and structural history of the region and the
12 anticipated formations or age period of time, rocks, equivalents,
13 that we anticipate to be potentially petroliferous reservoirs.

14 Exhibit Sixteen is a regional basin and production
15 map designed to show the area of interest relative to major
16 topographic features in Northwest New Mexico, basically
17 mountain ranges and river valleys and its relationship to the
18 productive region of the San Juan Basin and adjacent Four
19 Corners area.

20 Q Will you now refer to what has been marked as Exhibit
21 Seventeen and explain to the Examiner what it shows?

22 A Exhibit Seventeen is a regional cross section
23 designated C to D. It shows semi-schematically the structural
24 and stratigraphic relationships between what TransOcean defines
25 as the Zuni Basin and what the industry has defined as the

1 San Juan Basin.

2 We note that in the San Juan Basin Cretaceous rocks
3 are estimated to someday produce in excess of thirty some
4 odd trillion cubic feet of gas. There is production from
5 the Triassic formations in the San Juan Basin as well as
6 oil production from Cretaceous sands.

7 As a result of cross section work from outcrops and
8 subsurface work in wells we have correlated these formations
9 over the Zuni Mountains which are a Tertiary Laramide uplift
10 feature and into the few scattered wells in the Zuni Basin and
11 we find that there is preserved in the Zuni Basin a Cretaceous
12 section, a Permian section and some Pennsylvanian rocks and
13 these are to be our anticipated targets during exploration for
14 oil and gas in the region.

15 Q Will you now refer to Exhibit Eighteen and explain
16 what it shows to the Examiner?

17 A Exhibit Eighteen is a blowup of the Zuni Basin area
18 that TransOcean is interested in with the salient stratigraphic
19 features that have been determined from subsurface and surface
20 work executed by TransOcean Oil in the area.

21 The hachured line on Exhibit Number Eighteen
22 corresponds to the yellow outline on Exhibit Sixteen. Starting
23 with the oldest known rocks in the area of potential hydrocarbon
24 accumulation is the Pennsylvanian regional studies and accepted
25 geological data in the area indicates that the Pennsylvanian

1 is truncated around the margin of the old Zuni uplift which
2 is an ancestral rocky feature similar to the Uncompahgre or
3 San Luis Highlands, Pedernal Highlands, which are well documented
4 geological features.

5 It is felt that where the wedge edge of the Pennsyl-
6 vanian sediments occur is a very good spot to explore for oil
7 and gas.

8 The overlying formations of the Permian -- there
9 are three zones in the Permian which are of hydrocarbon
10 potential, the Yeso being the lowest has a tendency to look
11 like there may be some form of biogeneric buildups in the
12 Yeso which would indicate either a show of carbonate environ-
13 ment or a potential reef environment.

14 Overlying the Yeso is the Glorietta sand which is
15 a regional reservoir and would require anticlinal traps to
16 trap hydrocarbons on them. Over the Glorietta is the San Andres
17 which is a proven reservoir in Southeast New Mexico and
18 TransOcean feels that on the right structure, generated at
19 the right time, that the San Andres could be a productive
20 horizon.

21 The Triassic and Jurassic are involved in an
22 unconformity in the region and in excess of two thousand feet of
23 Cretaceous is preserved in the region and exact areas of where
24 it is preserved is pretty well defined by our outline. We
25 didn't look anywhere where there wouldn't be Cretaceous.

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1 Q Would you now refer to Exhibits Nineteen and Twenty
2 and explain to the Examiner what they show?

3 A Exhibit Nineteen is a writeup pertinent to the Omega
4 Unit, which covers the location, the structure in the region
5 and the geological reasons for limiting the size and defining
6 the configuration of the Omega Unit. The Omega Unit is in
7 Townships 2 and 3, 4 North, Range 14 West, Catron County, New
8 Mexico. It is located on a major, well documented, south-
9 trending, south-plunging anticlinal nose. The anticipated
10 zones to be tested are everything from surface to basement.

11 We have drawn the east, south and west term of the
12 unit based on surface mapping which has been trajected to a
13 plus five thousand foot structural contour drawn on the base
14 of the Cretaceous and all of this is from field data and that's
15 the east, south and west unit. The northern limit of the
16 area is where we feel there is a facies change north of which
17 you have tight, impermeable Permian sediments, the Yeso age,
18 south of which there should be porous permeable reservoir
19 rock of Yeso age.

20 The Cretaceous is also an objective on this feature
21 and if depositional patterns defined in the San Juan Basin
22 carry into the Zuni Basin we should see that the depositional
23 bodies of Cretaceous sand strike northwest-southeast and
24 if those bodies cross this well documented anticlinal nose,
25 we could elevate Cretaceous sands into an optimum productive

1 position by a combination of structural and stratigraphic
2 entrapment.

3 Q Will you now refer to what has been marked as
4 Exhibits Twenty-one and Twenty-two and explain them to the
5 Examiner?

6 A Exhibits Number Twenty-one and Twenty-two are the
7 report and accompanying map relative to the French Unit and
8 it covers the basic location, stratigraphy, structure and
9 basis for the proposed unit. The French Unit is located in
10 Townships 1 and 2 North, Ranges 16, 17 and 18 West, Catron
11 County, New Mexico, starting approximately four miles west of
12 the town of Quemado.

13 TransOcean Oil executed surface geological work in
14 the area. All the strike and dip symbols on this map were taken
15 in the field by people hired by TransOcean Oil. We have done
16 subsurface work with a few wells in the area, plus a small
17 amount of geophysical exploration and we have determined that
18 we feel that there is a southwest limit of this Yeso Dolomitic-
19 Biogeneric reseroir rock trend, south of which there should
20 be evaporites in the Yeso, north of which should be potential
21 reservoir rocks.

22 We have defined this area around the French Unit as
23 an anticlinal complex. There is no one anticline but there
24 are several low relief northeast-southwest trending anticlines.
25 The termination of the east-north and a little northwest of

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1 the unit is on the plus five thousand, four hundred and
2 fifty foot structural contour drawn on the base of the
3 Cretaceous which was determined from field mapping.

4 The south and southwest termination of the unit
5 is defined by this facies change in the Yeso. Further work
6 is being carried on in the area and we hope to define specific
7 four-way closed structures which would be an ideal spot to
8 drill for oil and gas.

9 We would anticipate drilling this well to basement
10 and evaluating all of the formations on the way down,
11 Cretaceous, Permian, San Andres, Glorietta and Yeso.

12 Q Would you now refer to Exhibits Twenty-three and
13 Twenty-four and explain them to the Examiner?

14 A Exhibits Twenty-three and Twenty-four are the
15 writeup and map relative to the Remuda Unit. It covers the
16 stratigraphy, structure and the basis for the proposed unit.

17 The Remuda Unit is located in Townships 2 and 3
18 North, Ranges 9 and 10 West, Catron County, New Mexico.

19 The Remuda Unit is on a major north-south trending,
20 south plunging, anticlinal trend which appears to have been
21 bisected by an east-west structural lineament giving a four-
22 way closed structure. The north-south-east-west limits of
23 this unit are defined by the plus five thousand five hundred
24 foot structural contour drawn on the base of the Cretaceous.
25 We also show some outcrops of Cretaceous in the center of

1 Township 3 North, Range 9 West, which in classic geological
2 terms, when spots of Cretaceous are exposed in the regions where
3 there are only Tertiary outcrops you tend to think there is an
4 anticline there and striking the measurements taken in the field
5 has substantiated the fact that there is expressed at the sur-
6 face an anticlinal closure defined by the Remuda Unit outline.

7 TransOcean Oil proposes to drill a test to basement
8 in this area and test all potential productive horizons.

9 Q Dennis, in each of the units would you, for the
10 Examiner, indicate where at this point you intend to put your
11 test well?

12 A In general we have a little further work to do but
13 we are going to try and put it right here, basically in the
14 center of the Omega Unit at the axis of the north-south
15 trending anticline. I have a little bit of further work to
16 do in that this anticline may be somewhat asymmetrical and I
17 would, therefore, have to locate the well at the surface so as
18 to get the crest of the anticline at depth.

19 In the French Unit our proposed plan to date is to
20 locate a well in either the southwest corner of Section 12 or
21 the northwest corner of Section 13 of Township 2 North, 18
22 West, basically because of the availability of surface dips is
23 such that this appears to be a four-way closure. We believe
24 others in this anticlinal complex are also four-way closures
25 but the fact that we are going to risk considerable money we

1 would like to definitely drill a well where we feel we have
2 the best chance.

3 On the Remuda Unit we feel that we should drill in
4 the Cretaceous that is exposed at the top of the anticline and
5 put it somewhere in the center of Township 3 North, Range 9
6 West. All of these locations will be checked on the ground for
7 topographic problems, range problems and we will position the
8 wells so as to not tear up the countryside any more than is
9 necessary.

10 Q When do you plan to commence the drilling of these
11 wells?

12 A In the spring of 1977.

13 Q In what order do you plan to drill them?

14 A We plan to drill the Remuda Unit first, the Omega
15 Unit second and the French Unit third.

16 Q If you would like to sit down now I think we have just
17 a few more questions.

18 In all of these units what is TransOcean's primary
19 objective?

20 A The discovery of commercial quantities of oil and
21 gas.

22 Q From what formations?

23 A Cretaceous, Pennsylvanian and Permian.

24 Q Is the Cretaceous the primary objective?

25 A At this point in time we can't really say due to the

1 nature of the area which is the primary objective. They all
2 three are legitimate objectives.

3 Q What are the horizontal limits of the Omega Unit?

4 A The horizontal limits? I don't believe I understand
5 that question fully.

6 Q Does your unit include all of the formations from
7 the surface of the ground down through what formations?

8 A To the Precambrian basement contact.

9 Q Is that the same of each of the other units, the
10 French and the Remuda?

11 A Yes, sir.

12 Q In your opinion will the proposed units be in the
13 interest of the prevention of waste and the protection of
14 correlative rights?

15 A Yes, sir.

16 Q Were Exhibits Fifteen through Twenty-four prepared
17 by you or under your direction and supervision?

18 A Yes.

19 MR. CARR: Mr. Examiner, at this time I would offer
20 Exhibits Fifteen through Twenty-four and I have no further
21 questions of this witness.

22 MR. STAMETS: These exhibits will be admitted.

23 (THEREUPON, Applicants Exhibits Fifteen
24 through Twenty-four were admitted into
25 evidence.)

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MR. STAMETS: Are there any questions of the witness?

He may be excused.

(THEREUPON, the witness was excused.)

MR. STAMETS: Is there anything further in this case?

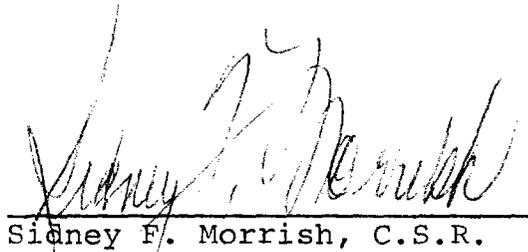
MR. CARR: Nothing further.

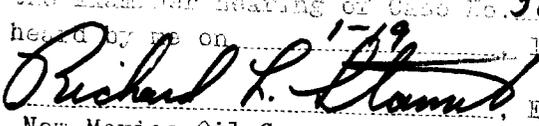
MR. STAMETS: We will take the case under advisement and I would like to thank TransOcean for an extremely comprehensive report on an area that the Commission does not have a great deal of information on and I'm sure that we will find this most valuable and we wish to thank you.

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REPORTER'S CERTIFICATE

I, SIDNEY F. MORRISH, a Certified Shorthand Reporter,
do hereby certify that the foregoing and attached Transcript
of Hearing before the New Mexico Oil Conservation Commission
was reported by me, and the same is a true and correct record
of the said proceedings to the best of my knowledge, skill and
ability.


Sidney F. Morrish, C.S.R.

I do hereby certify that the foregoing is
a complete record of the proceedings in
the Examiner hearing of Case No. 5837-5838-5839
heard by me on 1-19 1977
, Examiner
New Mexico Oil Conservation Commission

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