

## NEW MEXICO OIL CONSERVATION COMMISSION

## EXAMINER HEARING

SANTA FE, NEW MEXICOHearing Date DECEMBER 4, 1985 Time: 8:00 A.M.

NAME	REPRESENTING	LOCATION
Tommy Roberts STEVEN LUND J. BOCK BEN DONEGAN	Merrion Oil & Gas Corp. MERRION OIL & GAS MERRION OIL & GAS LEONARD MINERALS Co.	Farmington FARMINGTON Albuquerque
W. T. Kell Tracy Le Cocq Joe Umholtz	Byram GULRAM, INC.	Santa Fe Albuquerque
William A. Fay Greg Han Greg Harris Brenda J. Day	Campbell and Hack Bancroft " "	Santa Fe Medford " "
T. CARPER EZZELL, JR. Ann J. Murphy T. L. Ferguson, Jr. AN Leudwick	HINKLE LAW FIRM Murphy Operating Corp. STANHOUS ENGINEERING B.N. & M.N. Keyes, Tr	Roswell Roswell Newman, Texas Arlington, TX
Michael E. Rogers DAN TINSIE Y. C. ... Ernest Szabo	NMOC STEF Kritik Engineering, Inc. State Land Off. Oil & Gas Div	Santa Fe, NM " " " " Santa Fe

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NAME	REPRESENTING	LOCATION
John Yurontka Ed Hoffman Doree Miller	John Yurontka Manana Gas, Inc. Cous. Eugene	Midland Albuquerque Santa Fe

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION  
STATE LAND OFFICE BLDG.  
SANTA FE, NEW MEXICO

4 December 1985

EXAMINER HEARING

IN THE MATTER OF:

Application of Leonard Minerals  
Company for a unit agreement,  
Colfax County, New Mexico.

CASE  
8771

BEFORE: David R. Catanach, Examiner

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the Division:

Jeff Taylor  
Attorney at Law  
Legal Counsel to the Division  
Energy and Minerals Dept.  
Santa Fe, New Mexico 87501

For the Applicant:

W. Thomas Kellahin  
Attorney at Law  
KELLAHIN & KELLAHIN P. A.  
P. O. Box 2265  
Santa Fe, New Mexico 87501

## I N D E X

## BEN DONEGAN

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1  
2 MR. CATANACH: This hearing  
3 will come to order this morning for Docket Number 37-85.

4 We'll call first Case 8771.

5 MR. TAYLOR: The application of  
6 Leonard Minerals Company for unit agreement, Colfax, Mora,  
7 and Taos Counties New Mexico.

8 MR. KELLAHIN: If the Examiner  
9 please, I'm Tom Kellahin of Santa Fe, New Mexico, appearing  
10 on behalf of the applicant and I have one witness to be  
11 sworn.

12 MR. CATANACH: Are there other  
13 appearances in this case?

14 Will the witness please stand  
15 and be sworn?

16  
17 (Witness sworn.)

18  
19 BEN DONEGAN,  
20 being called as a witness and being duly sworn upon his  
21 oath, testified as follows, to-wit:

22  
23 DIRECT EXAMINATION

24 BY MR. KELLAHIN:

25 A Mr. Donegan, would you please state your

1 name and your profession?

2 A I'm Ben Donegan. I'm Regional Manager of  
3 Leonard Minerals Company.

4 Q Where are you located, Mr. Donegan?

5 A I manage the Albuquerque office of Leo-  
6 nard Minerals Company, headquarters in Ft. Worth, Texas.

7 Q Mr. Donegan, are you a Certified Profes-  
8 sional Geologist in New Mexico?

9 A Yes, I am.

10 Q And as a geologist have you previously  
11 testified before the Oil Conservation Division?

12 A Yes, I have.

13 Q Pursuant to your employment with Leonard  
14 Minerals Company, have you made a study of the facts sur-  
15 rounding this appication for approval of the Taos Trough  
16 Unit Agreement?

17 A Yes, I have.

18 MR. KELLAHIN: Mr. Examiner, we  
19 tender Mr. Donegan as an expert petroleum geologist.

20 MR. CATANACH: He is so quali-  
21 fied.

22 Q Mr. Donegan, let me direct your atten-  
23 tion, first of all, to Exhibit Number One, which is the plat  
24 of the area.

25 Would you identify for us without

1 explaining the exhibit, identify for us the map?

2 A This map shows the outline of the Taos  
3 Trough Unit, proposed Taos Trough Unit Area.

4 It shows the tract numbers. It  
5 identifies the Federal leases by the Federal lease number,  
6 the date of expiration of the lease, and it identifies the  
7 fee lands by the pattern that is shown on the tract numbered  
8 24 through 30 through 43.

9 It also shows at the bottom the total  
10 amount of Federal lands in the unit area; total amount of  
11 fee lands; and the percentages of each.

12 Q The information indicated on Exhibit Num-  
13 ber One, is that information that you have compiled or that  
14 has been compiled under your direction and supervision?

15 A Yes, sir.

16 Q I notice that the total acreage number is  
17 slightly different than the acreage declared in the first  
18 amended application.

19 My question, Mr. Donegan, is the acreage  
20 number used on Exhibit Number One true and accurate to the  
21 best of your knowledge?

22 A Yes, it is.

23 Q That is the acreage number, then, that  
24 the Examiner needs to use in examining the Federal lands and  
25 the fee lands.

1           A           Yes, sir.

2           Q           The unit boundary depicted on the exhi-  
3 bit, how is that shown?

4           A           The unit boundary is shown by a dashed  
5 line about one-quarter of an inch wide, that -- that --  
6 actually it's in Zipatone pattern/

7           Q           The outline of the unit, has that changed  
8 from the time the first amended application was filed?

9           A           No, it has not.

10          Q           So the boundary of the unit's the same on  
11 this exhibit as it was at the time you filed the first  
12 amended application?

13          A           Yes, it is.

14          Q           Is this the unit boundary that has been  
15 approved by the Bureau of Land Management?

16          A           Yes, it is.

17          Q           Within the unit boundary, Mr. Donegan,  
18 how have you identified for us the fee tracts?

19          A           The fee tracts are identified by hachure  
20 lines.

21          Q           The Federal lands, how are those identi-  
22 fied?

23          A           They're identified by the Federal lease  
24 numbers preceded by NM and in blank pattern.

25          Q           Who is the current lessee or operating



1 interest holder for all the Federal leases?

2 A Leonard Mineral Company and Kriti Explor-  
3 ation, Incorporated.

4 Q This is a voluntary exploratory unit, is  
5 it not, Mr. Donegan?

6 A Yes, it is.

7 Q And have you reached a voluntary agree-  
8 ment between Leonard Minerals Company and Kriti?

9 A Yes, I have.

10 Q Let's go now to Exhibit Number Two.  
11 Would you identify for us what Exhibit Number Two is?

12 A Exhibit Number Two is the legal descrip-  
13 tion of the lands included in the proposed Taos Trough Unit  
14 Area.

15 Q There are several different drafts of  
16 legal descriptions, perhaps, in the Commission case file at  
17 this point. Does this Exhibit Number Two represent the cor-  
18 rect description of the unit tracts?

19 A Yes, it does.

20 Q So if the Examiner wants to use a  
21 description for the unit, he ought to use this?

22 A Yes, he should.

23 Q Let's go to the unit agreement itself,  
24 now, Mr. Donegan, if you'll turn to Exhibit Number Three.  
25 Will you identify that for us?

1           A           Exhibit Number Three is the Taos Trough  
2 Unit Area Agreement.

3           Q           Is this a unit form that has been ap-  
4 proved by the Bureau of Land Management and the Oil Conser-  
5 vation Division for use in an exploratory unit?

6           A           Yes, it is. It conforms with and is the  
7 same except for the blanks that are indicated by underlines  
8 as the form in the Code of Federal Regulations.

9           Q           All right, sir. What is the purpose of  
10 the unit agreement? Would you describe generally what you  
11 seek to accomplish with the unit?

12          A           The Taos Trough Unit is proposed for the  
13 orderly exploration and development of a proposed unit area.

14                   The unit agreement provides for -- des-  
15 cribes the unit area; describes for a unit operator, Leonard  
16 Minerals Company; defines unitized lands, unitized substan-  
17 ces; provides for resignation, removal, or succession of the  
18 unit operator; and for the rights and obligations of the u-  
19 nit operator.

20                   Also provides for the drilling to discov-  
21 ery of initial test well; and it provides for plans for fur-  
22 ther development and operation and for participation and al-  
23 location of production.

24          Q           Let's identify for the Examiner the loca-  
25 tion of the initial test well to be drilled pursuant to the

1 unit agreement.

2           A           The initial test well is shown on Exhibit  
3 One by an arrow and a circle and the words "proposed initial  
4 well location." The initial well location is proposed to be  
5 in the southwest one-quarter of the northeast one-quarter of  
6 Township 24 North, Range 14 East, Taos County.

7           Q           What is the formation that you propose to  
8 test with the initial well?

9           A           The initial well is proposed to test the  
10 Sandia formation or 6000 feet, whichever occurs shallower.

11          Q           All right, sir, let's turn to Exhibit  
12 Number Four and have you identify Exhibit Number Four.

13          A           Exhibit Number Four is the Exhibit B por-  
14 tion of the unit agreement.

15                   Exhibit Four describes all of the lands  
16 in the unit. It first sets out Federal lands and tract num-  
17 bers that match the tract numbers shown on Exhibit One.

18                   It gives the number of acres for each  
19 lease, the Federal serial number, and the royalty and work-  
20 ing interest ownership.

21                   Exhibit B of the unit agreement also  
22 lists the fee lands and in the case of the proposed Taos  
23 Trough Unit there are only Federal and fee lands. The fee  
24 lands are set out following the Federal lands, beginning  
25 with Tract Number 24.

1                   In addition to the listing of these  
2 lands, at the end of the list there is a recapitulation  
3 showing total acreage and percentages in the proposed Taos  
4 Trough Unit Area.

5                   Further, there are metes and boundes  
6 descriptions attached to the list for those leases that are  
7 either unsurveyed or partially surveyed.

8                   Q           As of today, Mr. Donegan, what percentage  
9 of the working interest and royalty interest ownership has  
10 voluntarily committed their interest to the unit?

11                  A           In excess of 95 percent.

12                  Q           In your opinion does the unit operator  
13 have effective and efficient control of the unit operations  
14 at this point?

15                  A           Yes, sir.

16                  Q           Let's turn to the operating agreement,  
17 then, Mr. Donegan. It's Exhibit Number Five.

18                               What is the form of operating agreement  
19 used?

20                  A           The unit operating agreement is the Rocky  
21 Mountain Mineral Law Foundation Form 2, which provides for a  
22 divided interest type unit.

23                  Q           Have you submitted the operating  
24 agreement to the Bureau of Land Management?

25                  A           No. The -- we will furnish them an  
executed copy upon approval; however, the Bureau of Land

1 Management has not requested a copy of the unit operating  
2 agreement to this date.

3 Q Is this the unit operating agreement  
4 that's been executed by you and Kriti Exploration?

5 A Yes, it is.

6 Q Let's turn now to Exhibit Number Six, Mr.  
7 Donegan. Would you identify that for us?

8 A Exhibit Number Six is a copy of the let-  
9 ter from the Bureau of Land Management to Leonard Minerals  
10 Company in which the Bureau of Land Management designates  
11 the proposed area as a logical unit area.

12 This exhibit is the result of a number of  
13 meetings with the BLM; most recently a designation hearing  
14 on November the 15th, 1985.

15 Q I notice that the BLM is using a differ-  
16 ent total acreage number than you have shown on your Exhibit  
17 Number One. Has the BLM discussed with you modifications of  
18 the total unit acreage dedicated to the unit?

19 A Yes, they have, and they're aware of the  
20 -- of the acreage that is shown on the current map of the  
21 unit area, your Exhibit One here today.

22 The difference in acreage there is a re-  
23 sult of a number of meetings and changes of -- particularly  
24 redescrptions by the Bureau of Land Management of certain  
25 Federal lands that were -- that have been taking place the

1 last couple of months.

2 Q As a geologist, Mr. Donegan, have you an  
3 opinion as to whether or not the proposed boundary of the  
4 unit is one that's geologically reasonable for the explora-  
5 tion of the Sandia formation prospect?

6 A Yes, sir.

7 Q Let's turn to your geologic report, Mr.  
8 Donegan, Exhibit Number Seven, and have you describe for us  
9 the reasons and the basis upon which you reached that  
10 conclusion.

11 A Yes, I have.

12 Q All right. Let's -- let's go to the plat  
13 in the geologic report. and let's look at Plate No. I, I  
14 guess is the first one.

15 Does the geologic report and Plates I,  
16 II, and III represent your geologic work, Mr. Donegan?

17 A Yes, it does. Yes, they do.

18 Q All right, let's go to the Plate No. 1,  
19 sir, and have you identify for us what it is that you're  
20 showing.

21 A Plate No. I shows regional geology in re-  
22 lation to the location of the Taos Trough proposed unit  
23 area.

24 The Plat I is an Isopach map of the San-  
25 dia formation based on well control in the east part of the

1 area and on measured sections and outcrops northwest of the  
2 proposed unit area, west of the area, and to the south.

3 In addition to the contours it shows the  
4 thickness of the Sandia formation. The map shows by colors  
5 the critical formations, the rocks that are important to the  
6 potential for hydrocarbons in the Taos Trough Unit Area.

7 The beige color is PreCambrian outcrops.  
8 It's the area of PerCambrian outcrops. And the light blue  
9 color shows the area of Pennsylvanian outcrops.

10 Q What significance is Plate No. II --  
11 Plate No. I to you as a geologist in forming an opinion that  
12 the unit boundary is one that is a reasonable boundary for  
13 this unit?

14 A Plate I gives the geologic setting of the  
15 unit in relation to these rocks and the thickness of the  
16 Sandia to enhance the understanding of the other plates that  
17 more specifically define the purpose of and the reason for  
18 the boundaries of the unit.

19 Q All right, let's go to Plate No. II,  
20 then, sir. Would you identify that plate for us?

21 A Plate II shows the --

22 Q All right, sir, tell us what Plate No. II  
23 shows.

24 A Plate No. II shows by color -- colors the  
25 various facies of the Sandia formation, which is the forma-

1 tion which is the primary exploration target for the Taos  
2 Trough Unit Area, and particularly shows the location of the  
3 proposed unit area in relation to these facies boundaries  
4 and to the transition facies of the Sandia Formation.

5 The yellow pattern on Plate II, or the  
6 yellow color, that is, indicates the areas of fluvial clas-  
7 tics, the area of alluvial fan-braided stream and fan-delta  
8 sediments.

9 The green area represents the basinal  
10 facies of the Sandia formation.

11 The blue area shows the Pecos Shelf car-  
12 bonate facies of the Sandia formation.

13 And most importantly, the orange color  
14 shows the transitional facies. The transitional facies  
15 where the coarse clastics to the northwest interface in a  
16 terrigenous shelf into the basinal facies.

17 The boundaries of the proposed Taos  
18 Trough Unit Area were determined by the -- by the boundaries  
19 between these facies.

20 Q Would you turn to Plate No. III, Mr. Don-  
21 egan?

22 All right, sir, would you identify Plate  
23 No. III for us?

24 A Plate No. III is a larger scale map of  
25 the area of the proposed Taos Trough Unit, showing the same



1 information as shown on Plate II in smaller scale and gives  
2 an opportunity to more critically review the boundaries of  
3 the proposed unit in relationship to the -- to the primary  
4 target of the Taos Trough Unit; that is the transition fa-  
5 cies of the Sandia Formation.

6 Same color patterns as shown on Plate II  
7 are used on -- for the same facies on Plate III.

8 Q In terms of reservoir potential for the  
9 Sandia Formation, what does this exhibit and the other geo-  
10 logic data that you've examined tell you about this prospect  
11 and this unit?

12 A I refer you to Figure III of the geologic  
13 report for a schematic cross section, which will help in de-  
14 scribing this target area.

15 Q That would be on page seven of your re-  
16 port?

17 All right, sir.

18 Q I think it would be in order for a brief  
19 description of the predicted stratigraphy of this area as we  
20 look at the -- at the transition facies.

21 In the area of the proposed Taos Trough  
22 Unit the thicknesses on Plate I, the facies shown on Plates  
23 II and III are based on outcrop sections to the west, where  
24 the rocks that underlie the Taos Trough Unit Area come to  
25 the surface. Inasmuch as there are no wells present, or to

1 better phrase that, no wells have been drilled in this imme-  
2 diate area and in the Taos Trough Proposed Unit Area.

3 The measured sections are shown on Plate  
4 II by, or rather Plate III, by -- let me correct that; go  
5 back to Plate I.

6 The measured sections are shown on Plate  
7 I by the "X's" with the thicknesses shown by the numbers ad-  
8 jacent to the "X's".

9 Back again to Figure 3. Figure 3 shows  
10 in the Sandia Foramtion a basal, fluvial to shallow marine  
11 facies, which is of the Morrowan age.

12 These lower rocks are essentially a simi-  
13 lar facies over the -- all of the Taos Trough Unit Area.  
14 These rocks, that is, the Morrowan part of the Sandia, are  
15 mainly near shore marine sandstone shales and limestones for  
16 about 200 to 500 feet thick.

17 Above the Morrowan part of the Sandia  
18 Formation we have the primary target rocks of the Taos  
19 Trough Unit; that is, the Atokan age Sandia Formation.

20 The Atokan rocks are about 1000 feet  
21 thick north and west of the unit area and consist  
22 predominately of very coarse clastics in an alluvial fan-  
23 braided stream and fan-delta facies.

24 To the south of the proposed unit area  
25 the Pecos Shelf carbonates of the Sandia Formation are only  
a few hundred feet thick.

1 Southeast of the proposed unit area the  
2 basinal facies of the Atokan part of the Sandia Formation  
3 thicken to over 2000 feet of Basinal black shale.

4 But back to the schematic cross section,  
5 the Taos Trough Unit boundaries are defined by the interface  
6 of a progradational alluvial fan-braided stream fan-delta  
7 system.

8 Progradational is described, as you'll  
9 see in the cross section, if you were looking at it, that  
10 the -- that the fluvial facies are moving out into the basin  
11 through time so that this boundary of the proposed unit area  
12 --

13 Q The west boundary.

14 A The west boundary, is -- is at the  
15 interface which is located in earliest Atokan time.

16 The boundary to the east is the point of  
17 the progradation of those same facies out into the basin at  
18 the end of Atokan time.

19 Q And in your opinion as a geologist, that  
20 forms a reasonable basis upon which to draw the unit boundary  
21 of the surface?

22 A Yes, sir.

23 Q Geologic reason and justification to the  
24 boundary as you've outlined it?

25 A Yes, sir. When we talk about reservoirs,

1 if we do, I would like to describe one other boundary that's  
2 related to a change in porosity.

3                   The boundaries, in answer to your ques-  
4 tion, the northwest, south, and southeast boundaries are de-  
5 termined by -- by the changes in facies.

6           Q           How have you determined any of the other  
7 boundaries for the proposed unit?

8           A           The reservoir rocks in this area, and the  
9 porosities of those rocks, are the reason for the east  
10 boundary.

11                   The outcrops of the -- the outcrop in se-  
12 diments have very poor porosity in this area due to cementa-  
13 tion and compaction, the presence of authigenic chlorite,  
14 clay minerals.

15                   We expect that out in the Taos Trough  
16 Area farther from the source area more mature sandstones  
17 with good porosities and permeabilities; however, to the  
18 east of this area in the area of the True Medina Well shown  
19 on Plate I, and the Continental Well shown on Plate I, we  
20 have these favorable sandstones, the Terrigenous Shelf sand-  
21 stones that have poor porosity as a result of silica over-  
22 throws, apparently due to hydrothermal silica introduced in  
23 the numerous -- from the numerous intrusives present in that  
24 area.

25                   The intrusives are absent in the proposed

1 Taos Trough Area and that east boundary of the proposed Taos  
2 Trough Unit Area is based on the predicted west boundary of  
3 the area where porosity has been destroyed by hydrothermal  
4 silica.

5 Q Mr. Donegan, in your opinion as a geolo-  
6 gist will the unit operations of the proposed unit, is that  
7 a method that is most likely to lead to the orderly explora-  
8 tion of this area as opposed to some other method of opera-  
9 tion?

10 A Yes, sir, and particularly important in  
11 this area because of some unusual circumstances. We're in  
12 an area here of -- of mountainous country entirely in the  
13 Sangre de Cristo Mountains, entirely in the Carson National  
14 Forest, except a very small portion that's in the Santa Fe  
15 Forest.

16 The elevations in this area are -- aver-  
17 age about 9500 feet. The lowest elevations in the unit area  
18 are about 8100 feet and the central part of the area is a  
19 high mountain ridge with peaks above 11,000 feet and one  
20 peak, the highest peak in the area, 11,939 feet.

21 The high elevations are the site of a lot  
22 of snow and harsh winters.

23 For example, the snowfall at Black Lake,  
24 the nearest State Climatological Station to the east of the  
25 proposed unit at an elevation of 8600 feet, is 73.5 inches

1 with a high in 1980 of 158.2 inches.

2 Much of this area is unsurveyed and the  
3 approval of a unit here, besides enhancing the orderly  
4 development of this area and providing for economic and efficient  
5 production of hydrocarbons, will also mitigate the  
6 problems of the -- of the of the densely forested parts of  
7 the unsurveyed high mountain country.

8 Q At this point, Mr. Donegan, have you received  
9 the necessary preliminary approvals from the Bureau  
10 of Land Management for your unit?

11 A Yes, I have.

12 Q You've already used that letter into evidence,  
13 Mr. Donegan?

14 A Yes, sir, that was Exhibit Six, that described  
15 their approval.

16 Q And their approval was based in part upon  
17 the same geologic presentation that you've made here today.

18 A All of the maps and reports that were --  
19 that were submitted here today were submitted to them.

20 Q What is the timing, sir, for the effective  
21 date for the unit?

22 Once we get Oil Conservation Division approval,  
23 will that trigger the effective date for the unit?  
24 How does -- how does that work?

25 A Following approval from the Oil Conserva-

1 tion Commission, we plan to contact the fee owners, the 3000  
2 -- the owners of the 3000 -- 398.50 acres owners, and then  
3 following our having invited those people to join in the  
4 unit, and so informing the Bureau of Land Management, we ex-  
5 pect final approval from the Bureau of Land Management.

6 Q All right, sir.

7 MR. KELLAHIN: That concludes  
8 my examination of Mr. Donegan.

9 We move the introduction, Mr.  
10 Examiner, of Exhibits One through Seven.

11 MR. CATANACH: Exhibits One  
12 through Seven will be admitted as evidence.

13

14 CROSS EXAMINATION

15 BY MR. CATANACH:

16 Q Mr. Donegan, the description of the lands  
17 in the unit area, has that been approved by the BLM?

18 A Yes, it has.

19 Q They have accepted that description that  
20 you have?

21 A I should -- they've accepted it as I've  
22 submitted it at this meeting. I believe the BLM is now tak-  
23 ing each lease to -- to review it, to be sure we actually  
24 own it, through the BLM records in Santa Fe, and that our  
25 figures match those that are of record with the BLM in Santa

1 Fe.

2 Q The initial well drilled on the unit. do  
3 you know if that's going to be at a standard well location?

4 A The location was surveyed as a standard  
5 well location and drilling contractors have reviewed the lo-  
6 cation and there is a possibility that -- that the contrac-  
7 tors might want to move it a few hundred feet to -- for dif-  
8 ferent reasons, for topography or otherwise, but it was sur-  
9 veyed as a -- as a standard location, and when we make our  
10 application to drill, there is a possibility it would be for  
11 an unorthodox location.

12 Q Leonard Minerals is to be designated the  
13 unit operator?

14 A That is correct.

15 Q Is that correct?

16 MR. CATANACH: I have no fur-  
17 ther questions. Are there any other questions of the wit-  
18 ness?

19 If not, he may be excused.

20 Is there anything further in  
21 Case 8771?

22 MR. KELLAHIN: No, sir.

23 MR. CATANACH: If not, it will  
24 be taken under advisement.

25

(Hearing concluded.)



## C E R T I F I C A T E

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

Sally W. Boyd CSR

I do hereby certify that the foregoing is  
a complete record of the proceedings in  
the Examiner hearing of Case No. 8771  
heard by me on December 4, 1985.

David R. Catanese, Examiner  
Oil Conservation Division