

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

30 April 1986

EXAMINER HEARING

IN THE MATTER OF:

Application of Mobil Producing Texas      CASE  
and New Mexico, Inc. for salt water      8884  
disposal, Lea County, New Mexico.

BEFORE: Michael E. Stogner, Examiner

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the Oil Conservation  
Division:

Jeff Taylor  
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For Mobil Producing:

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## I N D E X

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## WILLIAM H. HERMANCE

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## E X H I B I T S

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Mobil Exhibit Two, Plat 6

Mobil Exhibit Three, Cross Section 9

Mobil Exhibit Four, Cross Section 9

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MR. STOGNER: Call next Case  
Number 8884.

MR. TAYLOR: The application of  
Mobil Producing Texas and New Mexico, Incorporated, for salt  
water disposal, Lea County, New Mexico.

MR. STOGNER: Call for  
appearances in this case.

MR. CARR: May it please the  
Examiner, my name is William F. Carr, of the law firm  
Campbell & Black, P. A., of Santa Fe.

We represent Mobil Producing  
Texas and New Mexico, Inc., and I have one witness -- I have  
two witnesses.

MR. STOGNER: Are there any  
other appearances?

There being none, will the  
witnesses please stand to be sworn?

(Witnesses sworn.)

MR. STOGNER: Please continue,  
Mr. Carr.

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WILLIAM H. HERMANCE,

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

DIRECT EXAMINATION

BY MR. CARR:

Q Will you state your full name and place  
of residence?

A My name is William Edwin Hermance. I  
live in Midland, Texas.

Q How do you spell your last name?

A H-E-R-M-A-N-C-E.

Q Mr. Hermance, by whom are you employed  
and in what capacity?

A I'm employed as a geologist by Mobil Pro-  
ducing Texas and New Mexico.

Q Have you previously testified before this  
Division?

A No, I have not.

Q Would you review for Mr. Stogner your  
educational background and then summarize your work  
experience?

A I received the Master's degree in geology  
in 1983 from Indiana State University and my Bachelor's de-

1 gree in geology in 1981 from the University of Rochester.

2 I've been employed by Mobil as a geolo-  
3 gist since 1984.

4 Q Does your area of responsibility with  
5 Mobil include that portion of southeastern New Mexico which  
6 is involved in today's hearing?

7 A Yes, it does.

8 Q Are you familiar with the application  
9 filed in this case on behalf of Mobil and are you familiar  
10 with the proposed disposal well?

11 A Yes, I am.

12 MR. CARR: We tender Mr. Her-  
13 mance as an expert witness in geology.

14 MR. STOGNER: Mr. Hermance is  
15 so qualified.

16 Q Would you please state what Mobil Pro-  
17 ducing Texas and New Mexico seeks with this application?

18 A Mobil seeks authority from the Commission  
19 to dispose of produced salt water into the Lower San Andres  
20 in the Bridges State 511, located 474 feet from the south  
21 line and 1904 feet from the east line of Section 23, Town-  
22 ship 17 South, Range 34 East.

23 Q Would you refer to what has been marked  
24 for identification as Mobil Exhibit Number One and identify  
25 this, please?

1           A           Okay, Exhibit Number One is Form C-108  
2 for the subject well, dated April 14th, 1986, with all re-  
3 quired attachments for the well.

4           Q           What is the status of the proposed dispo-  
5 sal well? Have you drilled it yet?

6           A           The well is undrilled.

7           Q           Would you refer to the plat which is in-  
8 cluded in Exhibit Number One -- I'm sorry, which is marked  
9 Exhibit Number Two and review that for Mr. Stogner, please?

10          A           Exhibit Number Two is a plat map located  
11 up on the wall to your left. The map shows the location of  
12 the subject well in section -- in the southeast quarter of  
13 Section 23, and it can be seen with a red dot.

14                    The map also shows all wells within a two  
15 mile radius of the proposed injection well.

16                    The plat map also shows lease ownership  
17 in the area and within the area of review is shown by a one-  
18 half mile circle around the well.

19                    Mobil currently operates a waterflood  
20 project within the yellow boundary that are just State  
21 leases.

22          Q           And then what --

23          A           I should point out, as well, that within  
24 Section 23 the State "VA" lease, labeled Amerada Hess, has  
25 been acquired by Mobil to the base of the San Andres.

1 MR. CARR: And this waterflood  
2 project, Mr. Stogner, is operated pursuant to Order R-1244.

3 MR. STOGNER: Thank you.

4 Q Mr. Hermance, would you now refer to the  
5 tabular data on all wells within the area of review which  
6 penetrate the injection zone?

7 A In Exhibit One you'll find the tabular  
8 data beginning on page 10/11 for all wells which penetrate  
9 the injection zone. There is also information on two other  
10 wells on page 71.

11 The data is tabulated giving the well  
12 number, location, well type, water injection well, whether  
13 the well is shut-in, an oil producer, or P&A'd, the depth of  
14 the well, the formation that the well is completed in, the  
15 completion interval, the date the well was drilled, and its  
16 current status.

17 I should point out that on page 10 Well  
18 No. 238 should be located in Section 24.

19 Q What do the symbols under well type indi-  
20 cate?

21 A WIW is water injection well; SI is shut-  
22 in; Oil is an oil producer; and P&A is a plugged and aban-  
23 doned well.

24 Q Are there any plugged and abandoned wells  
25 within the area of review?

1           A           There are three plugged and abandoned  
2 wells within the area of review and they can be found, the  
3 sketches on them and the tabular data are in the tables just  
4 referred to.

5                       The sketches can be found on pages 57 and  
6 58 for the North Vacuum Abo Unit No. 238. This well was  
7 TD'ed at 5000 feet.

8                       Two other wells, the State "VA" and one,  
9 NK3W (sic), are found on pages 71 to 77 and are located in  
10 the southwest quarter section of Section 23. These wells  
11 also were TD'ed above 5000 feet.

12           Q           And the data supplied provides all plug-  
13 ging information on the wells.

14           A           It does.

15           Q           Under what formation are you proposing to  
16 dispose water?

17           A           Mobil proposes to inject in the Lower San  
18 Andres.

19           Q           What is the thickness of this interval?

20           A           The thickness would be approximately 600  
21 feet, between 5050 feet and 5650 feet.

22           Q           Has the zone been tested?

23           A           The zone was tested and it was 100 per-  
24 cent wet in the Bridges State 27. This well is located, you  
25 can see on the plat, in the northeast quarter section of

1 Section 26.

2 Q Now, generally what is the nature of this  
3 formation?

4 A The Lower San Andres is a dolomite to  
5 sandy dolomite in this area.

6 Q Mr. Hermance, would you now refer to your  
7 north/south cross section, which is marked Mobil Exhibit  
8 Number Three, and perhaps you could go to the board and re-  
9 view the information contained on that exhibit for Mr. Stog-  
10 ner.

11 A Exhibit Four is also a cross section.  
12 This one is east, an east/west section that that will be  
13 fine and I will work back and forth with them.

14 Cross Section A-A' runs from Texaco's  
15 State AA Salt Water Disposal Well No. 1 in Section 10 of  
16 Township 18 South, Range 34 East, through the proposed loca-  
17 tion approximately five miles to the north and then north-  
18 ward into Section 14 and the northernmost well is the  
19 Vacuum Abo Unit No. 282. This is in Section 14 of 17 South,  
20 34 East.

21 Briefly the cross sections show the top  
22 of the San Andres and the entire productive interval in the  
23 San Andres across the cross section from north to south.  
24 This is the base, the lower part of the yellow, of the  
25 lowermost productive San Andres.

1           The blue section denotes the proposed  
2 disposal zone. This is correlated from the proposed well to  
3 the south and where Texaco is currently disposing in the  
4 same zone.

5           The Texaco well is an open hole comple-  
6 tion from 5100 feet to TD. This well is currently taking  
7 water on gravity.

8           These wells are not shown on the plat  
9 map. There is an index map on the cross section which will  
10 show you the trace of the cross section.

11           Cross section B-B', which would be Exhi-  
12 bit Four, I believe, ties to A-A' in the -- with the Bridges  
13 State No. 4. This well -- this cross section runs from Sec-  
14 tion 26, Township 17 South, 34 East, and the Mobil Bridges  
15 State 136 to the east in Section 29 of 17, 35 East, and the  
16 Shell well.

17           The cross section here shows essentially  
18 the same thing, the productive limits of the San Andres and  
19 the proposed disposal zone.

20           I think the cross sections clearly show  
21 the separation between the two farther to the east where  
22 other operators are currently producing from the San Andres.  
23 There is a 3-to-400 foot separation between the two zones,  
24 the top of the disposal zone and the base of the San Andres,  
25 and the base of the proposed disposal zone is approximately

1 250 or 300 feet above the Glorieta, which is the next poro-  
2 sity that you'll see below the disposal zone.

3 Q Mr. Hermance, what conclusions can you --  
4 have you reached as a result of your study of this area?

5 A The conclusions that we reach are that  
6 this proposed disposal zone contains good porosity of around  
7 12 percent. Permeability we expect to be around 25 milli-  
8 darcies. There's evidence with the Texaco well to the south  
9 that the zone will take water on gravity. The well will TD  
10 some 250 to 300 feet above the Glorieta, and the disposal  
11 zone is 350 feet to 400 feet isolated from the lowermost  
12 productive San Andres. This is the only nonproductiv zone  
13 of any extent within the field. We feel that the zone will  
14 allow for safe, efficient disposal of produced water and a  
15 better recovery of reserves in these lease areas.

16 Q Now, Mr. Hermance, you've reviewed the  
17 available geologic data on this area.

18 A I have.

19 Q As a result of this review have you dis-  
20 covered any evidence of open faults or other hydrologic con-  
21 nections between the disposal interval and any source of un-  
22 derground drinking water?

23 A I have not.

24 Q In your opinion will granting this appli  
25 cation be in the best interest of conservation, the preven-

1 tion of waste, and the protection of correlative rights?

2 A Yes. The ability to dispose of produced  
3 water in the Bridges State 511 will enable Mobil to operate  
4 wells in these lease areas that are currently shut-in and  
5 are uneconomic due to high water costs and the cost of  
6 trucking the water, and this will extend the productive life  
7 of these currently shut-in wellbores.

8 Q Will Mobil also call an engineering wit-  
9 ness to testify in this case?

10 A Yes, we will.

11 Q Is Exhibit Number One the application  
12 that was filed with the Division in this matter?

13 A It is.

14 Q And were Exhibits Two through Four pre-  
15 pared by you or compiled under your direction?

16 A They were.

17 Q And can you testify as to their accuracy?

18 A Yes, I can.

19 MR. CARR: At this time, Mr.  
20 Stogner, we would offer Mobil Exhibits One through Four into  
21 evidence.

22 MR. STOGNER: Exhibits One  
23 through --

24 MR. CARR: Four.

25 MR. STOGNER: -- Four will be

1 admitted into evidence.

2 MR. CARR: That concludes my  
3 direct examination of this witness.

4

5 CROSS EXAMINATION

6 BY MR. STOGNER:

7 Q When we refer back to Exhibit Number Two,  
8 I believe, this is Number Two?

9 A Right.

10 Q Okay, Number Two, this is essentially  
11 setting in the center of the Mobil Bridges State leases,  
12 which I understand is a waterflood area, is that correct?

13 A Yes, sir, it is.

14 Q And what -- what type of waterflood  
15 activity is in this particular zone that you will be --

16 A In this zone there are no completions;  
17 it's an unproductive zone.

18 Q All right.

19 A The zone we're proposing is again some 3-  
20 to-400 feet below the lowest productive San Andres.

21 Q Has this zone had any production in the  
22 past?

23 A No, it has not. It was tested and tested  
24 100 percent wet in the Bridges State 27, No. 27, in Section  
25 26.

1 Q And where is the nearest salt water dis-  
2 posal well of this type in the area?

3 A The nearest is approximately five miles  
4 to the south. It's the Texaco State AA No. 1, which is on  
5 the cross section.

6 There's a small index map to the bottom  
7 left of the cross section that will show you where it is.

8 Q And that shows that particular well --

9 A And where the locations of all the others  
10 are.

11 Q Why can't Mobil use this water to rein-  
12 ject in their waterflood?

13 A The current waterflood will only -- can  
14 only take so much and we're proposing water from not only  
15 the San Andres will be disposed in this well. So there's  
16 more water than we can inject in the San Andres waterflood.

17 Q What is the major make-up of the water in  
18 the waterflood? Where is it coming from?

19 A I believe our engineer will go into most  
20 of that in detail.

21 Q Okay. Thank you, sir.

22 MR. STOGNER: I have no further  
23 questions of this witness at this time.

24 MR. CARR: At this time we call  
25 Mr. Bankson.

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GLENN BANKSON,

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

DIRECT EXAMINATION

BY MR. CARR:

Q Will you state your full name and place  
of residence?

A Glenn Bankson. I live in Midland, Texas.

Q Mr. Bankson, by whom are you employed and  
in what capacity?

A I'm employed by the Mobil Oil Corporation  
as a reservoir engineer.

Q Have you previously testified before this  
Division?

A No, I haven't.

Q Would you briefly summarize for Mr. Stog-  
ner your educational background and then review your work  
experience, please?

A I received a Bachelor of Science degree  
in petroleum engineering at the Penn State University in  
1955.

In 1962 I was -- I was hired by Mobil Oil  
Corporation and I've been working for them as an engineer

1 every since.

2 Q Does your area of responsibility for  
3 Mobil include that portion of southeastern New Mexico which  
4 is the subject of today's application?

5 A It does.

6 Q Are you familiar with the application  
7 filed in this case on behalf of Mobil?

8 A I am.

9 Q And are you familiar with the proposed  
10 disposal well?

11 A I am.

12 MR. CARR: We tender Mr. Bank-  
13 son as a qualified petroleum engineer.

14 MR. STOGNER: Mr. Bankson is so  
15 qualified.

16 Q Mr. Bankson, what is the source of the  
17 water that Mobil proposes to inject or dispose of in this  
18 proposed well?

19 A The water that we propose to inject into  
20 the subject well is going to come primarily from the Mobil  
21 operated Abo units and from the Mobil -- Mobil's Bridges  
22 State San Andres Waterflood Project.

23 Q Now, Mr. Bankson, what is presently being  
24 done with this water?

25 A We are reinjecting as much of this water

1 as we can into the Bridges State San Andres Waterflood Pro-  
2 ject. Any excess water is either trucked off to a commer-  
3 cial water disposal wells, or we have a water disposal well  
4 in the Devonian formation which we inject some water into.

5 Q And what volumes are you proposing to in-  
6 ject in this particular well?

7 A We anticipate an injection rate of about  
8 3000 barrels a day initially.

9 Q And then what will the maximum rate be?

10 A We anticipate that the maximum rate will  
11 be about 11,000 barrels a day.

12 Q Is this going to be an open or a closed  
13 system?

14 A It will be closed system. The -- the  
15 water is all gathered and transported across the lease in  
16 lined pipe and it's held temporarily in tanks and Mobil has  
17 a gas (not clearly understood) on top of these tanks, so we  
18 -- we consider it a closed system.

19 Q Now, Mr. Bankson, I believe page four of  
20 Exhibit One indicates that the system will be open. Is that  
21 incorrect?

22 A That is correct. That -- that is an er-  
23 ror that should be corrected.

24 MR. STOGNER: I'm sorry, where  
25 is that?

1           A           It's on --

2                           MR. CARR:    It's numbered page  
3 -- at the bottom of the page, Roman Numeral VII, numbered  
4 paragraph 2.  It says, "System will be open".

5                           That should be "closed".

6           Q           Mr. Bankson, does Mobil propose to inject  
7 under pressure or by gravity?

8           A           We anticipate injecting under gravity.

9           Q           If, in fact, pressure needs to be applied  
10 to this well during disposal operations, would a pressure  
11 limitation of .2 pound per foot of depth to the top of the  
12 disposal interval be satisfactory for Mobil's purposes?

13          A           We believe that it would, yes.

14          Q           Would you now refer to the schematic  
15 drawing of the proposed injection well in Exhibit Number One  
16 and review the completion or proposed completion of that  
17 well for Mr. Stogner?

18          A           Yeah.  The schematic of the proposed  
19 well's on page number six.

20                           There is a written write-up of this com-  
21 pletion that we propose on page 79, but I'll go over the  
22 schematic here.

23                           What we propose to do is have a conductor  
24 pipe, 13-3/8ths inch conductor pipe set a 40 feet and then  
25 we will circulate cement on it.

1                   Then we will come down with the surface  
2 pipe to 1700 feet, it will be a 9-5/8ths inch pipe, and  
3 we'll circulate cement on it.

4                   Then we'll come down to the total -- to-  
5 tal depth of approximately 5650 feet and we'll set 7-inch  
6 casing at that depth and we'll circulate cement on it.

7                   Then we'll come in and perforate in the  
8 -- this is an approximate zone, and we'll have to define ex-  
9 actly once we get some logs in here. We'll go ahead and  
10 perforate. Then we'll come up and set a packer about 100  
11 feet above the perforations. We'll anchor down the tubing.  
12 The tubing is going to be 2-and-7-inch dual line tubing  
13 (sic) and it will be tied into, anchored into the packer,  
14 which will be, like I say, about 100 feet above the perfora-  
15 tions.

16                   Q           Will the annular space be filled with an  
17 inert fluid?

18                   A           Yes, the -- yes, it will, and we will, in  
19 addition to that, have the presure gauges on the annulus so  
20 that we can monitor the pressure changes in that, the annu-  
21 lus.

22                   Q           And you'll be able to run all tests re-  
23 quired by the Federal Underground Injection Control Program.

24                   A           We will.

25                   Q           Mr. Bankson, do you anticipate any com-

1 patibility problems resulting from the proposed disposal?

2 A We have not -- we don't have any compat-  
3 ibility tests for the water we're going to put in there and  
4 the zone, water in the zone that we're talking about; how-  
5 ever, we have been injecting the Abo water since about 1978  
6 into the -- into the upper productive areas, intervals of  
7 the San Andres reservoir and we have not seen any evidence  
8 of any kind of a problem with compatibility or plugging of  
9 that nature, or anything of that nature.

10 Therefore we think that we will not have  
11 any compatibility problems with the disposal zone.

12 Q Are there fresh water zones in the area?

13 A There are. The fresh water zone is the  
14 Ogallala which overlies this area at approximately 300 feet.

15 Q Now, are there any fresh water wells  
16 within one mile of the proposed injection well?

17 A There are two of them and we have them --  
18 on page 82 we have a plat which shows the two fresh water  
19 wells.

20 For lack of a better name we've labeled  
21 them X and Y.

22 X is in the southwest corner of the south  
23 -- southwest quarter of the southeast quarter of Section 23  
24 and Y is in the northeast quarter of the northwest quarter  
25 of Section 25.

1                   On the previous page, page 81, we have a  
2 water analysis report on these two wells that was taken on  
3 April 7th, 1986.

4                   Q           Mr. Bankson, will a log of this well be  
5 filed with the Division as required by Division rules?

6                   A           It will.

7                   Q           Who operates all the offsetting proper-  
8 ties in this area?

9                   A           Mobil, Mobil operates all the properties  
10 around here for the half mile interval of interest that  
11 we're talking about.

12                  Q           And who is the surface owner?

13                  A           The surface owner is the State of New  
14 Mexico.

15                  Q           Are you aware of similar applications  
16 that have been granted for injection of waters in the same  
17 general area?

18                  A           The, of course, the Texaco well which  
19 Bill Hermance talked about, which is on the bottom -- on the  
20 south end of the cross section that he has, and Rice Engin-  
21 eering has a commercial disposal well, or zone, or well in  
22 the same zone off to the east of this property.

23                               MR. CARR: Mr. Stogner, the or-  
24 der approving the Texaco disposal well was entered in Case  
25 5874, and that is Order R-5391.



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CROSS EXAMINATION

BY MR. STOGNER:

Q Mr. Banks.

A Yes, sir.

Q I'll repeat my question earlier. What is the source water for the Mobil Bridges State lease water-flood project?

A The source water is the produced Abo formation water and also the water produced out of the San Andres zone.

Q Now this is for the water utilized in the Mobil Waterflood Project?

A That's right.

Q Is there any fresh water from the Ogallala being utilized out there?

A Yes, sir. We use the fresh water from the Ogallala to waterflood the Abo formation in the Abo units.

Q But not the Bridges -- okay.

A Not the Bridges State lease.

Q Not the -- not the Grayburg --

A San Andres.

Q -- San Andres, just the Abo.

A Yes, sir.

1           Q           Why can't this water be reinjected and  
2 utilized in the waterflood project?

3           A           The -- the Abo formation is a very tight  
4 formation. The average permeability in the Abo is less than  
5 one millidarcy.

6                       We currently inject an average of about  
7 200 barrels a day, or to 225 barrels a day per injection well  
8 and our -- and this is fresh water, and the surface pressure  
9 -- the surface injection pressure is about 4000 pounds.

10                      Now we've had CORE Laboratories do a  
11 study for us that included measuring the particulate size,  
12 the size of the particulate matter entrained in the Abo  
13 water and also the throat pore -- pore throat size of the --  
14 of the interconnecting (not clearly understood) you know,  
15 between the porosity, the interconnecting channels. And as  
16 a result of their study we found that -- that the Abo pro-  
17 duced water contains an awful -- very large amount of parti-  
18 culate matter entrained in it. It is approximately of one  
19 micron size, and we are not able to filter that this -- we  
20 are not able to filter out this size, this small size of  
21 particulate matter.

22                      The CORE Laboratories work on the throat,  
23 pore throat sizes indicated approximately 60 percent of the  
24 reservoir had pore throat sizes also in the one micron size,  
25 and we are very much afraid that if we did inject the -- the

1 Abo produced water, we would plug up a large proportion of  
2 the -- of the Abo reservoir and we would not be able to put  
3 as much water into the ground for fear of having to run our  
4 injection pressure up higher and we think that we would end  
5 up bypassing quite a bit of the reserves in the Abo forma-  
6 tion.

7 Q Have you reviewed, Mr. Banks, all the  
8 wells within the half mile radius?

9 A Yes, sir.

10 Q Okay, have -- have you checked the cement  
11 behind the pipe for both producing and injection wells in  
12 there?

13 A The injection wells and producing wells  
14 that penetrate through this zone that we are talking about  
15 are primarily wells that get down into the Abo formation.  
16 Of course the San Andres are all completed above this parti-  
17 cular zone.

18 The Abo, normally when we complete a well  
19 in the Abo we run the surface string down to 5000 pounds, I  
20 mean 5000 feet, and then we run the production string on  
21 down to the 8400 feet for the Abo. In each case the cement  
22 is circulated behind the pipe and so that we feel that the  
23 -- that the part of the Abo wells that goes through this  
24 disposal zone will be adequately protected by cement around  
25 the casing.

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Q Thank you, Mr. Banks.

MR. STOGNER: I have no further questions of this witness.

Are there any further questions of Mr. Bankson?

If not, he may be excused.

Mr. Carr, is there anything further in 8884?

MR. CARR: Nothing further, Mr. Stogner.

MR. STOGNER: Does anybody else have anything further in Case Number 8884 at this time?

If not, this case will be taken under advisement and this hearing is hereby adjourned.

(Hearing concluded.)

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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. 8887, heard by me on 30 April 1986.  
Michael S. Stevens Examiner  
Oil Conservation Division