

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

21 November 1985

EXAMINER HEARING

IN THE MATTER OF:

Application of Penroc Oil Corpor- CASE
ation for hardship gas well class- 8759
ification, 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 Division: Jeff Taylor
Attorney at Law
Legal Counsel to the Division
Energy and Minerals Dept.
Santa Fe, New Mexico 87501

For the Applicant:

1

2

MR. STOGNER: Call next Case

3

Number 8759.

4

5

MR. TAYLOR: The application of
Penroc Oil Corporation for a hardship gas well classifica-
tion, Lea County, New Mexico.

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MR. STOGNER: It's just come to
my attention that Case 8759 will be continued to the Exam-
iner's Hearing scheduled for December 18th, 1985.

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(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 correct transcript of the proceedings in
the Examiner hearing of Case No. 8759,
heard by me on 26 November 1985.

Michael P. Thompson, Examiner
Oil Conservation Division

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

18 December 1985

DIVISION HEARING

IN THE MATTER OF:

The disposition of cases called
and without testimony being pre-
sented.

CASE 8782,
8746, 8784,
8785, 8759,
8753, 8788,
8789, 8689,
8773, 8736,
8735, 8737,
8775

BEFORE: Michael E. Stogner, 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
State Land Office Bldg.
Santa Fe, New Mexico 87501

For the Applicant:

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

9 January 1986

EXAMINER HEARING

IN THE MATTER OF:

Application of Penroc Oil Corporation CASE
for hardship gas well classification, 8759
Lea County, New Mexico.

BEFORE: David R. Catanach, Examiner

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the Oil Conservation Division:	Jeff Taylor Legal Counsel to the Division Oil Conservation Division State Land Office Bldg. Santa Fe, New Mexico 87501
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For the Applicant:	W. Thomas Kellahin Attorney at Law KELLAHIN & KELLAHIN P. O. Box 2265 Santa Fe, New Mexico 87501
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1
2 MR. CATANACH: Let's call next
3 Case 8759.

4 MR. TAYLOR: The application of
5 Penroc Oil Corporation for hardship gas well classification,
6 Lea County, New Mexico.

7 MR. CATANACH: Are there
8 appearances in this case?

9 MR. KELLAHIN: Mr. Examiner,
10 I'm Tom Kellahin of Santa Fe, New Mexico, appearing on be-
11 half of Penroc Oil Corporation.

12 I have one witness, Mr.
13 Sterling J. Talley, who is a professional petroleum engin-
14 eer.

15 MR. CATANACH: Are there other
16 appearances in this case?

17 MR. KENDRICK: H. L. Kendrick
18 with El Paso Natural Gas Company.

19
20 (Witness sworn.)

21
22 STERLING J. TALLEY,
23 being called as a witness and being duly sworn upon his
24 oath, testified as follows, to-wit:
25

DIRECT EXAMINATION

BY MR. KELLAHIN:

Q Mr. Talley, for the record would you please state your name and occupation?

A Sterling Talley, and I'm President of Penroc Oil Corporation; graduate of University of Oklahoma and degree in petroleum geology.

Q Mr. Talley, would you identify for the examiner what it is that you seek to accomplish on behalf of your company with this application?

A Do they accept me?

Q I haven't qualified you yet.

A Oh, oh.

Q What are you seeking on behalf of Penroc?

A We're seeking a hardship well classification for the Madera Com No. 1 Well, which is located in Unit C of Section 11, Township 24 South, Range 34 East, in Lea County, in the Antelope Ridge Morrow Gas Field.

Q On behalf of your company, Mr. Talley, have you made a study of the geologic and engineering facts surrounding this application?

A Yes, I have.

Q And have you previously testified before the Division as an expert petroleum geologist?

A Yes, I have.

1 MR. KELLAHIN: We tender Mr.
2 Talley as an expert geologist.

3 MR. CATANACH: He is considered
4 qualified.

5 Q Mr. Talley, let me direct your attention
6 to the package of exhibits that we have marked for the exam-
7 iner.

8 The first exhibit I have marked is simply
9 the application form itself.

10 On that form, sir, would you indicate to
11 the examiner what is the minimum sustained producing rate
12 that you're requesting for the subject well in terms of its
13 hardship gas classification?

14 A We're requesting a minimum rate of 200
15 MCF per day.

16 Q Let's turn to Exhibit Number Two and have
17 you identify for the examiner the location of the well and
18 the proration unit assigned to the well.

19 A Okay. The plat you have before you there
20 is a combination land plat of Township 24 South, Range 34
21 East, which indicates the Penroc Madera Well located in the
22 north half of Section 11, and the proration unit is outlined
23 in orange, being the north half of Section 11.

24 I might say that this well is located
25 1980 feet from the west and 660 feet from the north lines of

1 Section 11, 24 South, 34 East, in Lea County. I named the
2 pool. The completion date was March 15th, 1974, in the Mor-
3 row sand section through a series of perforations 13,524
4 feet to 13,744 feet. Total depth of the well is 14,100
5 feet. Plugged back total depth is 14,060 feet.

6 The initial potential was calculated ab-
7 solute open flow of 1440 MCF gas per day plus 51.77 barrels
8 of condensate per day. The shut-in tubing pressure prior to
9 going on the sales line was 4259 pounds. Gas connection to
10 El Paso sales line was June 14th, 1974.

11 I want to make a note at this time that
12 this well is a deviated hole because of a lost fish in the
13 hole. TD at that time was 13,580 feet. Cement was then set
14 and brought up to 13,132 feet; drilled the cement to solid
15 cement at 13,168. Set the Dynadrill at 13,168 feet on 12-8-
16 73 and then drilled to 14,100 feet, the total depth, which
17 was reached on January the 10th, 1974.

18 Q Let's take a moment, Mr. Talley, and
19 direct the examiner's attention not only to Exhibit Number
20 Three, which is the written narrative of your history on the
21 well the difficulties you have with the fluid problems, if
22 you'll turn also to Exhibit Number Four and identify that
23 exhibit for us.

24 A Okay. Number Four is a decline curve
25 that has been prepared commencing with first production of

1 the well in 1974, being June, and terminates through Novem-
2 ber, 1985.

3 The curve simply shows the amount of gas
4 made on a monthly basis versus the -- yeah, the amount of
5 gas made on a monthly basis, and then at the top I have
6 shown the total amount of gas production for each year. We
7 do have an exhibit later on which will show the cumulative
8 amount of gas that has been produced.

9 Also along the top part of the curve over
10 on the righthand side I have shown some notes there which
11 will be correlated back to the narrative that we have in Ex-
12 hibit Three.

13 Q All right, let's, using Exhibit Four as a
14 guide for the producing history of the wells, would you com-
15 mence with your narrative on Exhibit Number Three and lead
16 us through the important factors that you have used to reach
17 a conclusion determining whether or not in your opinion this
18 well justifies hardship gas well classification.

19 A Yes. What I have written here and what I
20 will say is that the Madera Comm. No. 1 Well has always been
21 a high pressure, low volume well. It is evidenced that pro-
22 duction has slowly decreased from an average of 8000 MCF of
23 gas per month production in 1975 to an average of approxi-
24 mately 5250 MCF per month during 1980.

25 Now this is a period of almost six and a

1 half years.

2 Then in late 1980 the well would not pro-
3 duce into the sales line; in other words, pressure had de-
4 creased to the point it would not flow of its own accord. A
5 compressor was installed and the well produced without inci-
6 dent until those periods of low gas market demand and the
7 well commenced to be shut-in.

8 Now you'll see there quite clearly on the
9 decline curve, and see that from June, 1974 through 1980,
10 almost, it had a very classic, slow decline curve, and then
11 we put the compressor on it and then you'll see it built up
12 to where up until the period of the middle of 1982 it was
13 making almost as much gas as it was initially back in 1974,
14 '75, '76.

15 A compressor was installed and the well
16 produced -- I said that.

17 During the months of June, July, August,
18 and September, in 1982 the well was shut-in 8, 23, 26, and
19 13 days, respectively, and I have denoted that above the
20 curve on Exhibit Four.

21 Now, in this case production was resumed
22 each time simply by opening the well after the well had been
23 shut-in; however, the real problem began to develop in 1983.
24 The well was shut-in 10 days in May but had to be swabbed to
25 return to the sales line.

1 On June the 4th, 1983, found fluid at
2 3000 feet. We made seven runs with swab, and kicked the
3 well off.

4 Then in September, 1983 the well went
5 down because of mechanical malfunction of the choke valve.
6 After repair the well would not flow at this time.

7 We swabbed over a period of three days
8 before we could get the well to flow.

9 The year 1984 was a bad one. The well
10 died. Swabbed and determined had communication in casing
11 annulus. What I mean was that we had pressure on the casing
12 which we had not had before. We pulled the tubing, found
13 that we had a hole in the tubing at 10,574 feet. We also
14 found that we had scale build-up in the lower tubing. We
15 treated the well while we had the tubing job going with 1000
16 gallons of Gypsol and acidized the perforations with 1000
17 gallons of 15 percent NE acid; this during the month of May.
18 The well still would not flow.

19 We alternately shut the well in for pres-
20 sure build-up and opened the flow over a period of time; had
21 no success.

22 So then in June we swabbed the well two
23 days. It would not retain a sustained flow.

24 We swabbed again on June the 25th for one
25 day. The well would make only 30 to 50 MCF of gas per day

1 throughout most of July. Eventually we unloaded enough
2 water to slowly increase production to an average of 216 MCF
3 of gas per day in December of 1984.

4 For the first time, the well suffered a
5 loss in income for the year 1984.

6 It could be noted that well performance
7 has not been good in '85 because or due to a variety of fac-
8 tors.

9 In January we evidenced only 14 producing
10 days because of sales line freeze-ups attributable to
11 extremely cold temperatures. Average daily production was
12 106 MCF gas per day.

13 The Madera produced an average of 205 MCF
14 gas per day during February but was shut in by purchaser for
15 four days during the 15th through the 18th. Production was
16 recorded for the first 25 days of March, being an average of
17 265 MCF of gas per day.

18 The well was shut in by purchaser on the
19 25th -- hm, that's not the right date -- through the 25th of
20 April -- yes, it is.

21 We were allowed to open the well one day
22 on the 26th but told to shut it in again. We shut in then
23 until May the 17th. We were allowed to produce through the
24 24th and shut in again. We only averaged 135 MCF gas per
25 day.

1 We opened on the 26th, produced through
2 the 21st of June; averaged 164 MCF of gas per day.

3 Then El Paso shut the well in for its an-
4 nual shut-in tubing pressure test; could not get well to
5 flow after this shut-in period. We alternately shut it in
6 for pressure build-up and open but with negative results.

7 We swabbed the well three days on the
8 5th, 6th, 7th of July. Again went through alternate, the
9 well would not flow after this.

10 We went through another period of alter-
11 nate shut-ins and open procedures with no sustained flow.

12 We swabbed the well again two days on
13 August 21st and 22nd. We determined now that we had a leak-
14 ing seal assembly, and we'll cover that when we look at the
15 schematic of the wellbore.

16 We pulled the tubing, repaired the seal
17 assembly and go back in the hole. We swabbed the 28th and
18 29th. After shut-in could not get well to flow. We period-
19 ically shut-in and open to attempt production; was not suc-
20 cessful.

21 Have pressure build up to 2800 pounds.
22 We move in a unit for one last attempt to get the well to
23 produce and swabbed on the 25th and 26th of September. We
24 closed the well again for two days for pressure build-up and
25 this time after we open, we have a small flow of gas. We

1 keep the well producing through October, increasing to 110
2 MCF of gas a day but averaged only 91 MCF for the month.

3 During November we averaged 122 MCF of
4 gas per day but actually had increased in the latter part of
5 the month to approximately 160 MCF per day. During this
6 period of time we're producing an average of 4.64 barrels of

7 The well also experienced a loss of reve-
8 nue in 1985.

9 Now the reason we were able to produce
10 the well through, or beginning on September the 29th through
11 October, November, and December, is because we had an emer-
12 gency hardship grant from the Hobbs Office.

13 Q Let me direct your attention, Mr. Talley,
14 to the schematic. It's marked Exhibit Number Five, and
15 let's look at the way the well is completed for production.

16 Using the schematic as a guide, Mr. Tal-
17 ley, is there anything you can do as the operator of the
18 well that would economically minimize the water problems or
19 the fluid problems you're having in the production of the
20 well?

21 A Well, the wellbore sketch shows the com-
22 plete mechanical condition of the Madera Comm. No. 1.
23 You'll see that it's a typical deep well completion. It has
24 surface casing 10-3/4 to 5199; 7-5/8ths at 12099 feet, with
25

1 a liner from 11666 to total depth of 14,100 feet, that being
2 the 5-inch liner.

3 It has an Otis WB packer set at 13,405
4 feet and, as I say, it does have a seal assembly, and I had
5 earlier mentioned that this was a side-tracked hole.

6 Now this seal assembly is a 15' one and
7 is to allow free travel to compensate for expansion and con-
8 traction of the tubing. Now this is not only through temp-
9 erature changes but pressure changes, as well.

10 Now, no other mechanical means have been
11 considered for the reason that the cost of 13,400+ feet of
12 smaller diameter tubing is prohibitive considering the lim-
13 ited volume of gas produced from a well that has not paid
14 out in 11-1/2 years of production, and that amount of small
15 diameter tubing is risky to run in a deviated hole, and from
16 what can be observed now, there is no assurance that the
17 well can be revived once it goes down again.

18 Q The well currently is utilizing a com-
19 pressor.

20 A A compressor has been on the well since
21 December, 1980.

22 Q Let's turn to Exhibit Number Six, now,
23 Mr. Talley, and have you identify the production history.
24 It's the same history that was indicated in the margin of
25 Exhibit Number Four?

1 A Yes, it is. The only addition being that
2 as each year the annual MCF of gas is recorded, then we in-
3 dicate the cumulative production by each succeeding year,
4 and it goes through November of 1985 and shows that the well
5 made 855,244 MCF of gas through that date.

6 Q Let me direct your attention now, Mr.
7 Talley, to whether or not you have an opinion about the
8 operator being able to economically continue the practice of
9 swabbing the well to restore it to production, and I direct
10 your attention now to Exhibit Number Seven.

11 A Exhibit Number Seven is an expense column
12 page that has been prepared that shows the monthly expenses
13 through 1983 and 1984 and 1985.

14 1983 was, as I pointed out earlier, was a
15 relatively trouble-free year and is representative of what
16 one year would look like expensewise if you don't have to go
17 out there and do an awful lot of swabbing and do any other
18 type of mechanical work.

19 But you'll notice, then, in 1984, we
20 spent over \$82,000 on this well versus a \$39,000+ in 1983,
21 and in 1985 we spent a little over \$51,000+ trying to keep
22 the well going.

23 Q In your opinion is it economic for the
24 operator to continue the practice of having to swab the well
25 after it's shut-in in order to restore production?

1 A No, it is not, because as I mentioned a
2 moment ago, this well has lost over \$25,000 revenue during
3 18 -- 1984 and 1985.

4 Q Let's turn your attention now to Exhibit
5 Number Eight and talk about the reserves that are at risk in
6 this well.

7 A Okay, on the Exhibit Number Eight I used
8 this particular method to come up with reserve calculations.

9 As I mentioned earlier, the initial shut-
10 in tubing pressure in March of 1974 was recorded as 4259
11 pounds. The shut-in tubing pressure in September of 1985
12 was 2800 pounds, so you can see we had a pressure depletion
13 over that period of time of 1459 pounds, psi.

14 As I showed on a previous exhibit, the
15 cumulative production through 11-30-85 was 855,244 MCF of
16 gas. That's less than a billion cubic feet.

17 I took the cumulative production divided
18 by the pressure depletion and came up with 586.19 MCF per
19 pound of pressure depletion.

20 On a low pressure or on a high pres-
21 sure/low volume well, I certainly don't know what the aban-
22 donment pressure would be, particularly in this case.

23 We selected a rather high 1000 pounds psi
24 abandonment pressure. Subtracting that from the last pres-
25 sure recorded, we come up with 1800 pounds psi remaining us-

1 able pressure.

2 We multiply that pressure times the pres-
3 sure depletion of 586.19 that we have seen, and we come out
4 with slightly over 1-billion cubic feet of remaining recov-
5 erable reserves.

6 At 200 MCF of gas production per day, as-
7 suming you could maintain that, we're looking at 14.5 years
8 yet to go to depletion.

9 Q Have you applied a value to the remaining
10 recoverable reserves?

11 A Yes, we -- we applied the average price
12 paid times the reserves, and find that there's over -- al-
13 most \$2-1/4-million gross value of remaining reserves.

14 Q You've indicated to the examiner a mini-
15 mum sustained producing rate for the well of 200 MCF a day.

16 Would you describe for the examiner the
17 reasons why you believe that to be a fair and reasonable
18 minimal rate to be granted for this well?

19 A Well, several considerations have been
20 taken into account there, and that is that we don't honestly
21 know that the well will ever get back there, but we do know
22 that it has been capable of producing that amount of gas,
23 but we've seen what it's done the last three months, plus
24 the amount of money that the well cost to -- to keep on the
25 line, or to keep going when we were allowed to produce it,

1 and the fact that once we keep the water moving, what
2 actually comes out of the formation, and not have to contend
3 with any other water that was lost like during the period of
4 when the seal assembly leaked on us, but to keep that water
5 moving, keep that gas moving, that is a figure we feel would
6 be fair and equitable, and we're not talking about very much
7 gas, when you get right down to it, you know.

8 Q Turn your attention now, Mr. Talley, to
9 Exhibits Nine, Ten, Eleven, and Twelve, and ask you, sir,
10 have you provided notification of the other offset operators
11 in the area, as well as the transporter of gas?

12 A Yes, we did apply -- we did supply a copy
13 of the application to the offset operators. Not only that,
14 we provided them with a plat showing the location of the
15 well and also provided that to the Hobbs District Office and
16 also provided it to the purchaser of gas.

17 Q Exhibit Number Thirteen, Mr. Talley, is
18 your affidavit as required by the form indicating that
19 you've certified that all the information in the application
20 is true and correct to the best of your knowledge?

21 A Yes, it is.

22 Q I want to show you now what I've marked
23 as Exhibit Number Fourteen, which is a copy of the perfor-
24 ated interval on the log of the subject well, and have you
25 identify for the examiner where your perforations are on the

1 log.

2 A Yes. That's a radioactive log of the
3 perforated interval in the Morrow section, and you'll see
4 that it's not a solid section, that the top perforation at
5 13,524 to 13,533, and then 13,540 to 552; 13,554 to 561; and
6 then we drop down to 13,652 to 13,660; and then 13,723 to
7 13,744.

8 Q Mr. Talley, do you have an opinion as to
9 whether it would be reasonable to attempt to squeeze off any
10 of these perforations in an effort to isolate or minimize
11 the flow of water into the wellbore?

12 A No, I do not. I do not think that trying
13 to isolate these different perforations simply because when
14 you look at the log you'll see that these are rather thin
15 lenticular sands and that it took all of these sections to
16 even make the well that we did, which was rather poor to be-
17 gin with, and some of the sands, like at the bottom, are
18 rather dirty, and that we feel that access to the wellbore
19 from these sands are necessary to be able to have the gas
20 that we have at the moment.

21 Q In the absence of a hardship gas well
22 classification for this well, Mr. Talley, what will you as
23 the operator be required to do with the well?

24 A We'll be required to plug and abandon the
25 well, because, as I pointed out, we've lost money the last

1 two years and we cannot sustain the economics any further,
2 and if the well is not granted a hardship classification and
3 allowed to produce to the amount we have requested, then we
4 have no other alternative but to poll our other partners and
5 recommend that the well be plugged and abandoned, and this
6 would be a shame, in view of the fact that over a billion
7 cubic feet estimated gas reserve is still present there and
8 would be, certainly, an underground waste.

9 MR. KELLAHIN: Mr. Examiner,
10 that concludes my examination of Mr. Talley.

11 In addition to moving the in-
12 troduction of Exhibits One through Fourteen, I also have a
13 letter from Mr. Jerry Sexton addressed to Mr. Talley, in
14 which Mr. Sexton, as Supervisor of the Division's District
15 Office in Hobbs, had indicated he concurs that this well
16 qualifies for the hardship gas well classification.

17 A I might amplify on that letter to the
18 point that I went over to the Hobbs District Office a week
19 ago Monday and showed this Mr. Sexton this whole layout as
20 we've shown here today.

21 MR. CATANACH: Mr. Kellahin,
22 your exhibits numbers are One through --

23 MR. KELLAHIN: Fourteen, I be-
24 lieve, sir.

25 MR. CATANACH: The Exhibits One

1 through Fourteen will be admitted as evidence.

2
3 CROSS EXAMINATION

4 BY MR. CATANACH:

5 Q Mr. Talley, you stated that the smaller
6 diameter tubing would probably not be feasible due to econo-
7 mics?

8 A Well, that would be part of it. The
9 other part is the fact that we do have a crooked hole there
10 and we have had problems getting this tubing that we have in
11 and out of the hole, packer drag, not packer, but the seal
12 assembly and everything dragging, and the pipe itself drag-
13 ging against the crookedness of the hole, and we don't think
14 that that small diameter tubing -- that the smaller diameter
15 tubing would handle it as well as the strength of the 2-
16 3/8ths that's in there now.

17 Q You say that you have to plug the well if
18 you don't obtain this hardship gas well classification?

19 A That's my opinion, yes, sir. That's my
20 recommendation as operator.

21 MR. CATANACH: I have no fur-
22 ther questions of this witness.

23 Are there any other questions
24 of the witness?

25 Is there anything further in

1 Case 8759?

2 MR. KENDRICK: I have a state-
3 ment I'd like to make.

4 MR. CATANACH: Mr. Kendrick.

5 MR. KENDRICK: El Paso Natural
6 Gas neither concurs with this application nor does it object
7 to this application.

8 El Paso's position is that the
9 Commission should be notified that any additional gas that
10 we should take from this well above its normal delivery
11 would be gas that would be taken from other wells in the
12 area in allowing this well to produce.

13 That's all I have.

14 MR. CATANACH: Thank you, Mr.
15 Kendrick.

16 Is there anything further in
17 Case 8759?

18 If not, the case will be taken
19 under advisement.

20 MR. TALLEY: I would like to
21 point out one thing, if I may. If you'll go back to your
22 land plat there, talking about other wells in the area,
23 there are only two other wells in this area. One is a half
24 a mile to the north, which hasn't produced any gas in
25 measureable quantities in a couple of years, and the other

1 one is over a mile to the northwest, which is on the Shell
2 Antelope Ridge Unit. There are no other Morrow wells around
3 these wells.

4 MR CATANACH: Thank you, Mr.
5 Talley.

6 Case 8759 will be taken under
7 advisement.

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9 (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. 8759
heard by me on Jan 9 1986.

David R. Cabanish, Examiner
Oil Conservation Division