

NEW MEXICO OIL CONSERVATION COMMISSION

EXAMINER HEARING

SANTA FE, NEW MEXICO

Hearing Date FEBRUARY 17, 1988 Time: 8:15 A.M.

NAME	REPRESENTING	LOCATION
W. Kellobin	Kellobin Kellobin Advisory	Santa Fe
Bob Hillen	Byram	Santa Fe
H. Bruce	Hinkle Law Firm	Santa Fe
William J. [unclear]	Campbell and Black	Santa Fe
Tim Hunt	Texaco	Midland, TX
Brad Furks	TEXACO	Hobbs
DENNIS B. WEHMEYER	TEXACO	HOBBS, NM
John Hill	Campbell & Black	SF
LOUIS MAZZULLO	NEARBURG PRODUCING CO	MIDLAND.
MARK NEARBURG	"	DALLAS
Jerry [unclear]	OCD	Hobbs.

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

17 February 1988

EXAMINER HEARING

IN THE MATTER OF:

Application of Texaco, Inc., for CASE
special pool rules, Lea County, 9311
New Mexico.

BEFORE: David R. Catanach, Examiner

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the Division:

For Texaco, Inc.:

Scott Hall
Attorney at Law
CAMPBELL & BLACK, P. A.
P. O. Box 2208
Santa Fe, New Mexico 87501

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MR. CATANACH: Call next Case
9311.

The application of Texaco,
Incorporated, for special pool rules, Lea County, New
Mexico.

Are there appearances in this
case?

MR. HALL: Mr. Examiner, Scott
Hall from the Campbell and Black law firm on behalf of the
applicant, Texaco.

I have two witnesses to be
sworn this morning.

MR. CATANACH: Any other
appearances in this case?

Will the two witnesses please
stand and be sworn in?

(Witnesses sworn.)

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

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DIRECT EXAMINATION

BY MR. HALL:

Q For the record, please state your name.

A Timothy Hunt.

Q Mr. Hunt, where do you live and by whom are you employed?

A I live in Midland, Texas. I'm employed by Texaco.

Q What do you do for Texaco?

A I'm a petroleum geologist.

Q All right. Have you previously testified before the Division?

A Yes, I have.

Q And are you familiar with Texaco's application and the subject lands?

A Yes, I am.

MR. HALL: Are the witness' qualifications acceptable?

MR. CATANACH: He is qualified.

Q All right, Mr. Hunt, if you would, please, state what it is that Texaco seeks by this application.

A We would like to increase the GOR limitations from the statewide rules of 2000-to-1 to 10,000-to-1

1 for the Monument-Abo Field, Lea County, New Mexico.

2 Q All right. Have you prepared certain ex-
3 hibits in conjunction with your testimony?

4 A Yes, I have.

5 Q All right, let's look at Exhibit One; if
6 you'd identify that and explain that to the Examiner,
7 please.

8 A Exhibit One is a structure map of the
9 Monument-Abo Field area. It contains only wells that pene-
10 trate the Abo formation. There are a number of wells dril-
11 led on mostly 40-acre spacing that penetrated the Grayburg-
12 San Andres that are not shown on this map, so this is a
13 rather densely drilled area.

14 The yellow acreage that's colored on the
15 map is Texaco's J. R. Phillips Lease.

16 This exhibit was created to help estab-
17 lish a gas cap exists over this field.

18 The two wells indicated in the yellow
19 colored acreage are the Texaco J. R. Phillips No. 6, indi-
20 cated by a "6" above the well, and the Texaco J. R. Phillips
21 No. 11, indicated by "11" above the (unclear).

22 The Texaco J. R. Phillips No. 5 also pen-
23 etrated the Abo and is a twin to the -- the No. 11. Since
24 they're so close together their subsea should be essentially
25 identical and I didn't -- I didn't put the No. 5 on here;

1 however, it's an important well.

2 The J. R. Phillips No. 5, which is the
3 twin to the 11, is in an up-dip position to the J. R. Phil-
4 lips No. 6. The No. 5 produces essentially only gas while
5 the No. 6 produces gas and oil, which indicates a gas cap.

6 The red line on this map is a trace of
7 the cross section used as Exhibit Number Two.

8 Q All right, let's look at Exhibit Two, and
9 if you'd explain that to the Examiner.

10 All right, would you identify Exhibit
11 Two, please?

12 A This is a structural cross section which
13 correlates the Glorieta through the Abo. This exhibit was
14 made to help establish the fact of a gas cap by explaining
15 the various tests in the Abo formation.

16 DST's are indicated on the logs as sort
17 of a backwards Z on the left side of the footage column.

18 Perforations are indicated on the logs as
19 rectangles for overall intervals or as just a line opposite
20 where the perforation would be where those were available.

21 These are indicated on the right side of
22 the footage column.

23 Because of tests indicating that oil was
24 above gas, or water was above gas or oil, I separated the
25 Abo into four zones.

1 The first zone is from the top of the Abo
2 down to the next solid line and it looks argillaceous. The
3 gamma ray is reading hotter than usual for a dolomite.

4 The second zone is a cleaner looking, al-
5 though still has some argillaceous streaks in it, and the
6 third zone has -- is similar to the first zone, the gamma
7 rays again reading hotter than normal for a dolomite.

8 The fourth zone is similar to the second
9 zone.

10 Tests in these zones, except the third
11 zone, indicate each has an oil/water contact, and that the
12 first and the second zones have a gas/oil contact.

13 Zone Three had no tests in it so I
14 couldn't make any assumptions from those.

15 Because of the gamma ray readings in
16 Zones Two and Four, I think that those zones are continuous
17 within the zone and I drew an oil/water contact and a gas-
18 oil contact across the zone on the cross section.

19 Because of the argillaceous nature of
20 readings on Zone One, I believe that these are discontinuous
21 lenses.

22 Perhaps Zone Three would be similar to
23 that, although again we don't have tests to indicate that
24 lenses exist there or not.

25 Only one of these lenses has been tested

1 in Zone One and is being produced, and that's indicated
2 across the four wells on the cross section there in Zone
3 One.

4 The extent of this lens is difficult to
5 determined because of the poor quality of logs and the lack
6 of tests. The gas/oil contact in this lens is indicated by
7 Texaco J. R. Phillips No. 5, which on a production test
8 showed that the gas is only coming from the footage at 6,994
9 feet; that's indicated on the log as just a -- just a line,
10 while the Texaco Phillips No. 6 produces oil and gas from
11 perforations at 7,015 feet to 7,046 feet, which is down dip.

12 Q If I understand you correctly, the hori-
13 zontal extent of the upper lens, as shown on the cross sec-
14 tion, is determines solely by the quality of the well logs.

15 Do you have any reason to believe that
16 the -- that that lens does not exist throughout, further
17 throughout the Abo-Monument Pool?

18 A No, I can't really say that it doesn't
19 exist, but I believe that -- I believe that these lenses are
20 somewhat discontinuous.

21 Q Are Texaco's plans for future development
22 dependent upon the ability to produce that gas cap interval
23 at a higher GOR limit?

24 A Yes. The GOR would affect the -- the
25 economics of drilling further wells out here.

1 We do at this time have a proposed well
2 that would twin the Skelly State "D" No. 3, which is on this
3 cross section. It's the second well from the right. We
4 intend to drill it down to a depth of about 70,000 -- 7725
5 feet, to test all the Abo formation with this -- this first
6 lens in Zone One being our primary objective.

7 Q If the higher GOR limit is permitted,
8 does Texaco plan to drill additional wells?

9 A I expect that we'd be able to drill
10 somewhere between two and six additional wells if we -- if
11 we would get the higher GOR.

12 Q All right. Mr. Hunt, in your opinion
13 will the granting of Texaco's application be in the interest
14 of conservation, the prevention of waste, and protection of
15 correlative rights?

16 A Yes, it would.

17 Q And were Exhibits One through Two
18 prepared by you?

19 A Yes.

20 Q Do you have anything further you wish to
21 add?

22 A No.

23 Q All right.

24 MR. HALL: At this time we'd
25 move the admission of Exhibits One and Two and that

1 concludes our direct of this witness.

2 MR. CATANACH: Exhibits One and
3 Two will be admitted into evidence.

4

5

CROSS EXAMINATION

6 BY MR. CATANACH:

7 Q As I understand it, Mr. Hunt, you're say-
8 ing that the Abo has four different producing zones.

9 A Yes. Well, Zone Three, I don't know if
10 it will produce or not, so there's three producing zones.

11 Q Okay, and you're saying that Zone One is
12 the zone that has the gas cap.

13 A Zone One has a gas cap and Zone Two has a
14 -- has a gas cap, I think. I didn't color it red all the
15 way up to the top. I think it probably extends to the top
16 of Zone Two.

17 I guess I should say that the gas is red,
18 the oil is green, and the water is blue.

19 Q Are there two distinct gas caps?

20 A I believe so.

21 Q And you also said that the -- the gas cap
22 in Zone One wouldn't extend horizontally to a large area.

23 A It would extend as large as that lens is
24 and I'm -- I think that that lens is somewhat limited, al-
25 though I don't have real solid evidence of that. It could

1 be. It could go all the way across the field. I tend to
2 think, because of the argillaceous nature of the logs that
3 it doesn't.

4 Q Okay, the No. 5 Well is located just
5 northwest of the No. 11 Well, is that correct?

6 A That's correct.

7 MR. HALL: Mr. Examiner, I
8 believe his testimony was that he doesn't know more about
9 the extent of the gas cap interval but because of the poor
10 nature of the logs he simply can't tell; doesn't have any
11 reason to believe that the gas cap zone doesn't exist
12 further throughout.

13 Q So it might exist further throughout?

14 A Yes.

15 Q I see the number -- Well No. 5 and 6 were
16 both producing from -- well, the No. 6 is producing from
17 both zones, both Zones One and Two, is that correct?

18 A No. 6 produced from Zones Two and Four
19 but those are plugged back now and it just produces from
20 Zone One now, since July of '87.

21 Q Was Zone Two depleted?

22 A I assume it was. That's more of an
23 engineering question.

24 MR. HALL: We have additional
25 exhibits that will elaborate on it.

1
2 MR. CATANACH: Okay. That's --
3 that's all I have for now. I may have something later.

4 MR. HALL: Okay.

5
6 BRAD BURKS,

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

9
10 DIRECT EXAMINATION

11
12 BY MR. HALL:

13 Q For the record please state your name,
14 please.

15 A Brad Burks.

16 Q Mr. Burks, where do you live and by whom
17 are you employed and in what capacity?

18 A I live in Hobbs, New Mexico. I am
19 employed by Texaco. I am a petroleum engineer.

20 Q And you've -- you've never testified
21 before the Division before today.

22 A No, sir.

23 Q Why don't you give the Examiner a brief
24 summary of your educational background and work experience?

25 A In 1983 I received a Bachelor's in
petroleum engineering from the University of Tulsa in

1 Oklahoma and since that time I've been employed by Texaco
2 and have strictly worked in southeast New Mexico.

3 Q All right, and you're familiar with
4 Texaco's application in the subject pool?

5 A Yes, sir.

6 MR. HALL: Are the witness'
7 qualifications acceptable?

8 MR. CATANACH: They are.

9 Q All right, let's look at Exhibit Three.
10 Would you explain that to the Examiner, please?

11 A Mr. Examiner, Exhibit Three is a map of
12 the Monument Abo Field and the Monument Abo Field itself is
13 outlined by hatched marks. It covers approximately 4-1/2
14 sections.

15 Within those hatched marks are past and
16 present Abo wells. They are so marked and also have current
17 production and oil and gas cumulatives.

18 Q Are all those Abo locations classified as
19 oil wells or gas wells?

20 A All but two are oil wells. The two gas
21 wells that we do have are Texaco's J. R. Phillips No. 5,
22 which was previously discussed, and also Texaco's E State
23 No. 5, the most southwestern well in the field.

24 Q And are all of those locations at stand-
25 ard 40-acre oil well locations?

1 A Yes, they are.

2 Q Do -- what are the figures next to the
3 locations? Are those cumulative production figures?

4 A Yes, sir, they are. The first line is
5 for current production if the well is currently active.
6 That is barrels of oil per day, with a slash, barrels of
7 water per day, with a slash, and MCF per day.

8 Below that is the oil and gas cumulative.

9 Q All right. Let's look at Exhibit Four,
10 if you'd explain that to the Examiner, please.

11 A Mr. Examiner, Exhibit Four is a produc-
12 tion graph of production versus time for our J. R. Phillips
13 No. 5, which was previously discussed as one of the two gas
14 wells in the field.

15 The well was originally completed in the
16 Abo in 1981 in the lower zones, Two and Four. It was very
17 marginal.

18 In March of '83 we recompleted to the
19 Zone One lens and after that point we recovered 100 percent
20 gas.

21 Q All right. What does the plot show with
22 respect to the GOR, the oil production?

23 A The second page of Exhibit Four is a
24 plot of GOR versus time for the well. The GOR is indicated
25 for years '81 through '83. Since that time no oil has been

1 produced; therefor, a GOR is not calculated.

2 Q All right. Let's look at Exhibit Five.
3 Why don't you explain that, please?

4 A Exhibit Number Five is a production graph
5 of production versus time for our J. R. Phillips No. 6, one
6 location south of No. 5.

7 That well was originally completed in the
8 lower oil zones, Zones Two and Four, of the Abo. After pro-
9 duction declined to approximately 5 barrels of oil per day
10 in July of '87, we recompleted to the upper Abo, the Zone
11 One, and recovered a gas rate of 1000 MCF per day; an oil
12 rate of 45 barrels; and a water rate of 2 barrels per day.

13 Q Now, for both the 5 and 6 wells are the
14 GOR's for those wells increasing over time?

15 A Yes, sir, they are. As you will notice
16 on page two of Exhibit Five, this is a GOR plot versus time
17 of J. R. Phillips No. 6. The gas/oil ratio has steadily in-
18 creased since 1983 and has been updated as of July, '87, to
19 demonstrate the recent workover results.

20 Q All right, let's look at Exhibit Six, if
21 you'd identify that and explain that, please.

22 A Exhibit Six is again a production graph
23 of production versus time for the entire Monument Abo Field.
24 This includes all past and present active Abo wells in the
25 field.

1 More can be seen from the second page of
2 Exhibit Six, the GOR plot. The GOR plot shows a steadily
3 increasing GOR since early 1983, which corresponds to the
4 date J. R. Phillips No. 5 was recompleted to the gas cap.

5 Q All right, let's look at Exhibit Seven.
6 Would you identify that, please?

7 A Exhibit Seven is a Commission form, Form
8 C-116, submitted by Texaco to the Commission, of Texaco's
9 three Monument Abo wells. This just demonstrates the cur-
10 rent GOR or the most recent test for New Mexico E State 5
11 and J. R. Phillips 5 and 6.

12 Q And what were the results of those tests?

13 A The results of those tests indicated that
14 we have the capability of producing more gas but at the cur-
15 rent allowable of 2000-to-1 we are -- are cut back on our
16 gas rate and this just demonstrates where we are at this
17 time.

18 Q All right. Let's look at the production
19 log, Exhibit Eight, if you could explain what that shows to
20 the Examiner, please.

21 A Exhibit Eight is a log, it's a production
22 log, from J. R. Phillips No. 5.

23 To the left of the title page, putting
24 the title page to your right and then turning several pages
25 until you see the 7000 foot interval on the scale, this pro-

1 duction log was run on our Texaco J. R. Phillips No. 5 in
2 December of 1986. It was an attempt to find the location of
3 the gas entry in this well since it was 100 percent gas pro-
4 ductive.

5 The results of the production log indi-
6 cated that 100 percent of the gas was entering the wellbore
7 via a perforation at 6994 and it's so marked by a small cir-
8 cle on the lefthand column of the footage mark.

9 Several methods were used to determine
10 this gas entry, temperature and capacitance both indicated
11 oil and gas entry at 6994.

12 I might add that approximately one barrel
13 of oil per day is produced with this gas well, or less.

14 Q All right. In your opinion can Texaco's
15 wells in the pool be efficiently produced under the current
16 limit, 2000-to-1?

17 A I don't feel that they can efficiently be
18 produced. An example of this, in July of '87 we subsequent-
19 ly went to J. R. Phillips No. 6, opened up the correlative
20 interval to what was open in J. R. Phillips 5, producing the
21 gas.

22 After we brought the well in, it was 100
23 percent gas at the current allowable, but when we opened the
24 well up for testing following the workover, we received 45
25 barrels of oil per day, approximately 1200 MCF per day and 2

1 barrels of water per day. So by opening the well up we were
2 able to recover oil that would not otherwise be recovered.

3 Q All right. Do you -- in your opinion is
4 Texaco likely to recover additional hydrocarbons and if so,
5 do you have an estimate of the volumes?

6 A Yes, sir, I feel we can recover addition-
7 al volumes of oil from this gas cap.

8 An example is our Skelly D State No. 4,
9 which Mr. Hunt previously mentioned is our proposed drilling
10 well out there. We estimate at the current allowable that
11 we will recover 37,000 barrels of oil over the life of the
12 well and 700-million cubic feet of gas.

13 If the allowable were increased to, say,
14 10,000-to-1, we would recover an additional 20,000 barrels
15 of oil and 300-million cubic feet of gas.

16 Q All right. Who is the gas purchaser in
17 the area?

18 A The gas purchaser in this area is Warren
19 Petroleum Company, or Warren Gas Company.

20 Q Have they indicated a willingness to ac-
21 cept the increased volumes if the GOR is increased?

22 A Yes, they have. In conversation with Mr.
23 Don Valentine with Warren in Monument last August of '87, we
24 discussed the potential gas that we have the J. R. Phillips
25 lease, and he was willing to take all that -- that we could

1 supply.

2 Q All right. Let me show you what's been
3 marked as Exhibit Nine. Is Exhibit Nine your affidavit in-
4 dicating that you've directed your counsel to provide notice
5 to all affected interest owners and offset operators in the
6 pool?

7 A Yes, sir, it is.

8 Q Do you have anything further you wish to
9 add in this case?

10 A No, sir.

11 MR. HALL: We'd move the admis-
12 sion of Exhibits Three through Nine and that continues our
13 -- concludes our direct of this witness.

14 MR. CATANACH: Exhibits Three
15 through Nine will be admitted into evidence.

16

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CROSS EXAMINATION

18 BY MR. CATANACH:

19 Q How many interest owners are in the Monu-
20 ment Pool, do you know?

21 A Approximately eight. The major interest
22 owners are Amerada, Chevron, Texaco, and Superior Oil; Amer-
23 ada and Chevron holding more acreage than Texaco.

24 Q Are the majority of the wells in the pool
25 producing from the lower zones?

1 A Yes, sir, they are, Zones Two and Four.

2 Q And have the majority of the wells not
3 been tested in the upper zones?

4 A No, sir. With the exception of our two
5 wells, J. R. Phillips No. 6 and No. 6, Amerada has
6 perforated that upper interval in their J. R. Phillips No.
7 7. I believe it -- it's the third log from your right, I
8 believe. They are also open in that interval. Due to their
9 down-structure location when they perforated that interval
10 in July of '87 they recovered oil and gas. Their current
11 rate right now is 7 barrels of oil per day, 46 MCF per day.

12 Q In your opinion is there no communication
13 between the upper and the lower zones?

14 A No, sir. An example of such would be
15 when the lower zone was recompleted in J. R. Phillips No. 6
16 last July or August, J. R. Phillips 6 was basically depleted
17 in the lower interval with a shut-in tubing pressure of
18 approximately 600 pounds.

19 After the workover the shut-in tubing
20 pressure out of the Zone One, the gas cap lens only, shut-in
21 tubing pressure was 1800 pounds, so we do not feel that
22 there was any vertical continuity between the lens in Zone
23 One and the production in Zones Two and Four.

24 Q By increasing the GOR, how is that going
25 to help you produce more gas and more oil out of that zone?

1 A How it will help us is by dropping the
2 pressure the mobility of the oil will become such that we'll
3 be able to produce oil that would not otherwise be recovered
4 and by producing that oil we will also have gas flashing off
5 of the oil itself. It's approximately a 41 degree crude, and
6 we will obtain more gas and more oil by opening the well up.

7 Again, we are -- those -- those volumes
8 of those cumulatives that I previously gave you are based on
9 just 40-acre spacing.

10 Q You don't feel by increasing the GOR that
11 you would -- you would utilize too quickly all the reservoir
12 energy?

13 A We don't believe so. Again, I go back to
14 J. R. Phillips No. 6, if we produce at the current allowable
15 of 374 MCF per day, we produce approximately one barrel of
16 oil per day with that.

17 By producing it at 1000 MCF per day we
18 make 20 barrels of oil, 20 to 45 barrels of oil per day.

19 So we feel that what we are doing is re-
20 covering more oil using the gas energy. We do not feel that
21 if we deplete the gas, we do not feel that we can recover
22 the oil effectively. We can put it on pump at a later date
23 but will not recover what we could using the gas energy that
24 we have now.

25 Q So you're saying in this case that it

1 would be -- it would be more beneficial to produce the gas
2 more quickly.

3 A Yes, sir, and we are not afraid of any
4 water coning or water influx.

5 Q It looks like this is going to affect a
6 very, very few number of wells in the field, maybe. How
7 many would you estimate?

8 A Again based on what we have available for
9 log data, which is poor, we can estimate that approximately
10 one section is covered by this lens, per se. We -- we are
11 not writing off the possibility that this lens is continuous
12 throughout the field. We have not seen any production data
13 to verify this nor can we tell from our logs.

14 As Mr. Hunt stated in his testimony, the
15 log appears very shaly in that interval and it's very diffi-
16 cult to trace whether it's productive or not from the log.

17 So at this time it would only affect ap-
18 proximately two or three wells, but we would be required in
19 the future to have a higher GOR limit to justify further
20 drilling to this zone.

21 Q Is the higher GOR limit going to affect
22 any -- any of the wells producing from the other zones?

23 A No, sir, it will not.

24 Q Do -- do you know if any of those wells
25 even have the capability of producing at that high a GOR?

1 A From that upper or --

2 Q From the lower zones?

3 A No, sir, they do not. I might add that
4 those lower zones have been produced since as early as the
5 1950's and are currently nearing their depletion stage.

6 Q Now, how much production history do you
7 have producing at that high a rate, at that higher rate?
8 You don't have any production history?

9 A No, just through testing. We've tested
10 approximately once a month at the high rate for about two or
11 three days per month, again just as a test to see.

12 The latest test was a couple of months
13 ago. We flowed it at approximately 1200 MCF per day, cur-
14 rently making 22 barrels of oil per day with that rate.

15 Q Now how did you project from the test
16 that you would have a substantial increased recovery if you
17 don't know that you can maintain that production rate, that
18 high production rate? I'm -- what I'm trying to get at is
19 how do you know that you're going to increase your ultimate
20 recovery producing at that high a rate?

21 A Okay. Through the test, the tests are
22 indicating oil recovery that -- that we are not seeing in
23 the J. R. Phillips No. 5, nor are we seeing in J. R. Phil-
24 lips No. 6 when we flow it at low rates of around 374 MCF
25 per day. We see no oil and J. R. Phillips No. 5 has been

1 producing for approximately four years now, four or five
2 years. We see no oil rate to speak of.

3 Q Do you have the results of those tests
4 anywhere that you --

5 A I do have them in our office in Hobbs.

6 Q Okay. Why don't you send a copy of those
7 tests to us.

8 A Okay, sure will.

9 Q Did any of the operators in the pool
10 voice any objections or intend to?

11 A No, sir, they did not.

12 Q Okay.

13 MR. CATANACH: Okay, I think
14 that's all I have of the witness at this time.

15 He may be excused.

16 MR. HALL: We have nothing fur-
17 ther.

18 MR. CATANACH: Okay, there
19 being nothing further, then Case 9311 will be taken under
20 advisement.

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22 (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. 931, heard by me on February 17, 1988.

David R. Cabanel, Examiner
Oil Conservation Division